

GGCGCGCGCA	GCCTCGGCTA	CAGCTTCGGC	GGCGAAGGTC	AGCGCCGACG	GCAGCCGGCA	60
CCTGACGGCG	TGACCGACCC	GAGCCGATTT	CTCTGGATT	TGGCTACACA	CTTATAGATC	120
TTCTGCACTG	TTTACAGGCA	CAGTTGCTGA	TATGTGTTCA	AG ATG	AGT GGG ATG	174
				Met	Ser Gly Met	
				1		
GGA GAA AAT ACC	TCT GAC CCC	TCC AGG	GCA GAG ACA	AGA AAG	CGC AAG	222
Gly Glu Asn Thr	Ser Asp Pro	Ser Arg Ala	Glu Thr Arg	Lys Lys Arg	Lys	
5	10	15	20			
GAA TGT CCT GAC	CAA CTT GGA	CCC AGC	CCC AAA	AGG AAC	ACT GAA AAA	270
Glu Cys Pro Asp	Gln Leu Gly	Pro Ser	Lys Pro	Arg Asn Thr	Glu Lys	
25	30	35				
CGT AAT CGT GAA	CAG GAA AAT	AAA TAT	ATA GAA	GAA CTT	GCA GAG TTG	318
Arg Asn Arg Glu	Gln Glu Asn	Lys Tyr	Ile Glu	Leu Ala	Glu Leu	
40	45	50				
ATT TTT GCA AAT	TTT AAT GAT	ATA GAC	AAC TTT	AAC TTC	AAA CCT GAC	366
Ile Phe Ala Asn	Phe Asn Asp	Ile Asp	Asn Phe	Asn Lys	Pro Asp	
55	60	65				
AAA TGT GCA ATC	TTA AAA GAA	ACT GTG	AAG CAA	ATT CGT	CAG ATC AAA	414
Lys Cys Ala Ile	Leu Lys Glu	Thr Val	Lys Gln	Ile Arg	Gln Ile Lys	
70	75	80				
GAA CAA GAG AAA	GCA GCT GCC	AAC ATA	GAT GAA	GTG CAG	AAG TCA	462
Glu Gln Glu Lys	Ala Ala Ala	Asn Ile	Asp Glu	Val Gln	Lys Ser	
85	90	95	100			

FIG. 1A

GAT GTA TCC TCT ACA GGG CAG GGT GTC ATC GAC AAG GAT GCG CTG GGG Asp Val Ser Ser 105 Thr Gly Gln Gly Val 110 Ile Asp Lys Asp Ala Leu Gly 115	510
CCT ATG ATG CTT GAG GCC CTT GAT GGG TTC TTC TTT GTA GTG AAC CTG Pro Met Met Leu 120 Glu Ala Leu Asp 125 Gly Phe Phe Val 130 Val Asn Leu 130	558
GAA GGC AAC GTT GTG TTT GTG TCA GAG AAT GTG ACA CAG TAT CTA AGG Glu Gly Asn Val 135 Val Phe Val 140 Ser Glu Asn Val 145 Thr Gln Tyr Leu Arg 145	606
TAT AAC CAA GAA GAG CTG ATG AAC AAA AGT GTA TAT AGC ATC TTG CAT Tyr Asn Gln Glu 150 Glu Thr Met 155 Asn Lys Ser Val 160 Tyr Ser Ile Leu His 160	654
GTT GGG GAC CAC ACG GAA TTT GTC AAA AAC CTG CCA AAG TCT ATA Val Gly Asp His 165 Thr 170 Glu Phe Val 175 Leu Leu Pro Lys Ser 180 Ile 180	702
GTA AAT GGG GGA TCT TGG TCT GGC GAA CCT CCG AGG CGG AAC AGC CAT Val Asn Gly Gly Ser 185 Thr 190 Trp Ser Gly Glu Pro 190 Pro Arg Arg Asn Ser His 195	750
ACC TTC AAT TGT CGG ATG CTG GTA AAA CCT TTA CCT GAT TCA GAA GAG Thr Phe Asn 200 Cys Arg Met Leu Val 205 Lys Pro Leu Pro Asp 210 Ser Glu Glu 210	798
GAG GGT CAT GAT AAC CAG GAA GCT CAT CAG AAA TAT GAA ACT ATG CAG Glu Gly His Asp Asn Gln Glu 215 Ala His Gln Lys Tyr 225 Glu Thr Met Gln 225	846

FIG.1B

TGC TTC GCT GTC TCT CAA CCA AAG TCC ATC AAA GAA GAA GGA GAA GAT Cys Phe 230 Ala Val Ser Gln Pro 235 Lys Ser Ile Lys 240 Glu Gly Glu Asp	894
TTG CAG TCC TGC TTG ATT TGC GTG GCA AGA GTT CCC ATG AAG GAA Leu Gln Ser Cys Leu 245 Ile 250 Cys Val Ala Arg 255 Arg Val Pro Met Lys 260	942
AGA CCA GTT CTT CCC TCA TCA GAA AGT TTT ACT ACT CGC CAG GAT CTC Arg Pro Val Leu 265 Pro Ser Ser Glu Ser 270 Phe Thr Arg Gln Asp Leu 275	990
CAA GGC AAG ATC ACG TCT CTG GAT ACC AGC ACC ATG AGA GCA GCC ATG Gln Gly Lys 280 Ile Thr Ser Leu Asp 285 Thr Met Arg Ala Ala Met 290	1038
AAA CCA GGC TGG GAG GAC CTG GTA AGA AGG TGT ATT CAG AAG TTC CAT Lys Pro Gly Trp Glu Asp Leu 295 Val Arg Arg Cys Ile 300 Gln Lys Phe His 305	1086
GCG CAG CAT GAA GGA GAA TCT GTG TCC TAT GCT AAG AGG CAT CAT CAT Ala Gln His Glu Gly Glu 310 Ser Val Ser Tyr Ala Lys Arg His His 315 320	1134
GAA GTA CTG AGA CAA GGA TTG GCA TTC AGT CAA ATC TAT CGT TTT TCC Glu Val Leu Arg Gln Gly Leu Ala Phe Ser 325 Gln Ile Tyr Arg Phe Ser 330 335	1182
TTG TCT GAT GGC ACT CTT GTT GCT GCA CAA ACG AAG AGC AAA CTC ATC Leu Ser Asp Gly Thr Leu Val Ala Ala Gln Thr Lys Ser Lys Leu Ile 345 350 355	1230

FIG.1C

CGT TCT CAG ACT ACT AAT GAA CCT CAA CTT GTA ATA TCT TTA CAT ATG Arg Ser Gln Thr 360 Thr Asn Glu Pro Gln Leu Val Ile Ser Leu His Met 370	1278
CTT CAC AGA GAG CAG AAT GTG TGT GTG ATG AAT CCG GAT CTG ACT GGA Leu His Arg Glu Gln Asn Val Cys Val Met Asn Pro Asp Leu Thr Gly 375 380 385	1326
CAA ACG ATG GGG AAG CCA CTG AAT CCA ATT AGC TCT AAC AGC CCT GCC Gln Thr Met Gly Lys Pro Leu Asn Pro Ile Ser Ser Asn Ser Pro Ala 390 395 400	1374
CAT CAG GCC CTG TGC AGT GGG AAC CCA GGT CAG GAC ATG ACC CTC AGT His Gln Ala Leu Cys Ser Gly Asn Pro Gly Gln Asp Met Thr Leu Ser 405 410 415 420	1422
AGC AAT ATA AAT TTT CCC ATA AAT GGC CCA AAG GAA CAA ATG GGC ATG Ser Asn Ile Asn Phe 425 Pro Ile Asn Gly Pro Lys Glu Gln Met Gly Met 430 435	1470
CCC ATG GGC AGG TTT GGT GGT TCT GGG GGA ATG AAC CAT GTG TCA GGC Pro Met Gly Arg Phe 440 Gly Gly Ser Gly Met Asn His Val Ser Gly 445 450	1518
ATG CAA GCA ACC ACT CCT CAG GGT AGT AAC TAT GCA CTC AAA ATG AAC Met Gln Ala Thr 455 Thr Pro Gln Gly Ser Asn Tyr Ala Leu Lys Met Asn 460 465	1566
AGC CCC TCA CAA AGC AGC CCT GGC ATG AAT CCA GGA CAG CCC ACC TCC Ser Pro Ser Gln Ser Ser Pro Gly Met Asn Pro Gly Gln Pro Thr Ser 470 475 480	1614

FIG.1D

ATG CTT TCA CCA AGG CAT CGC ATG AGC CCT GGA GTG GCT GGC AGC CCT Met Leu Ser Pro Arg His Arg Met Ser Pro Gly Val Ala Gly Ser Pro 485 490 495 500	1662
CGA ATC CCA CCC AGT AGT CAG TTT TCC CCT GCA GGA AGC TTG CAT TCC CCT Arg Ile Pro Pro Ser Gln Phe Ser Pro Ala Gly Ser Leu His Ser Pro 505 510 515	1710
GTG GGA GTT TGC AGC AGC ACA GGA AAT AGC CAT AGT TAT ACC AAC AGC Val Gly Val Cys Ser Ser Thr Gly Asn Ser His Ser Tyr Thr Asn Ser 520 525 530	1758
TCC CTC AAT GCA CTT CAG GCC CTC AGC GAG GGG CAC GGC GTC TCA TTA Ser Leu Asn Ala Leu Gln Ala Leu Ser Gly Gly Val Ser Leu 535 540 545	1806
GGG TCA TCG TTG GCT TCA CCA GAC CTA AAA ATG GGC AAT TTG CAA AAC Gly Ser Ser Leu Ala Ser Pro Asp Leu Lys Met Gly Asn Leu Gln Asn 550 555 560	1854
TCC CCA GTT AAT ATG AAT CCT CCC CCA CTC AGC AAG ATG GGA AGC TTG Ser Pro Val Asn Met Asn Pro Pro Pro Leu Ser Lys Met Gly Ser Leu 565 570 575 580	1902
GAC TCA AAA GAC TGT TTT GGA CTA TAT GGG GAG CCC TCT GAA GGT ACA Asp Ser Lys Asp Cys Phe Gly Leu Tyr Gly Glu Pro Ser Glu Gly Thr 585 590 595	1950
ACT GGA CAA GCA GAG AGC AGC TGC CAT CCT GGA GAG CAA AAG GAA ACA Thr Gly Gln Ala Glu Ser Ser Cys His Pro Gly Glu Lys Glu Thr 600 605 610	1998

FIG.1E

AAT GAC CCC AAC CTG CCC CCG GCC GTG AGC AGT GAG AGA GCT GAC GGG Asn Asp 615 Pro Asn Leu Pro Pro Ala Val Ser Ser Glu Arg Ala Asp Gly 620	2046
CAG AGC AGA CTG CAT GAC AGC AAA GGG CAG ACC AAA CTC CTG CAG CTG Gln Ser Arg Leu His Asp Ser Lys Gly Gln Thr Lys Leu Leu Gln Leu 630 635 640	2094
CTG ACC ACC AAA TCT GAT CAG ATG GAG CCC TCG CCC TTA GCC AGC TCT Leu Thr Thr Lys Ser Asp Gln Met Glu Pro Ser Pro Leu Ala Ser Ser 645 650 655 660	2142
TTG TCG GAT ACA AAC AAA GAC TCC ACA GGT AGC TTG CCT GGT TCT GGG Leu Ser Asp Thr Asn Lys Asp Ser Thr Gly Ser Leu Pro Gly Ser Gly 665 670 675	2190
TCT ACA CAT GGA ACC TCG CTC AAG GAG AAG CAT AAA ATT TTG CAC AGA Ser Thr His Gly Thr Ser Leu Lys Glu Lys His Lys Ile Leu His Arg 680 685 690	2238
CTC TTG CAG GAC AGC AGT TCC CCT GTG GAC TTG GCC AAG TTA ACA GCA Leu Leu Gln Asp Ser Ser Ser Pro Val Asp Leu Ala Lys Leu Thr Ala 695 700 705	2286
GAA GCC ACA GGC AAA GAC CTG AGC CAG GAG TCC AGC AGC ACA GCT CCT Glu Ala Thr Gly Lys Asp Leu Ser Gln Glu Ser Ser Thr Ala Pro 710 715 720	2334
GGA TCA GAA GTG ACT ATT AAA CAA GAG CCG GTG AGC CCC AAG AAG AAA Gly Ser Glu Val Thr Ile Lys Gln Glu Pro Val Ser Pro Lys Lys 725 730 735 740	2382

FIG. 1F

GAG AAT GCA CTA CTT CGC TAT TTG CTA GAT AAA GAT ACT AAA GAT Glu Asn Ala Leu 745 Leu Arg Tyr Leu Leu Asp Lys Asp Thr Lys Asp 755	2430
ATT GGT TTA CCA GAA ATA ACC CCC AAA CTT GAG AGA CTG GAC AGT AAG Ile Gly Leu Pro Glu Ile Thr Pro Lys Leu Glu Arg Leu Asp Ser Lys 760 765 770	2478
ACA GAT CCT GCC AGT AAC ACA AAA TTA ATA GCA ATG AAA ACT GAG AAG Thr Asp Pro Ala Ser Asn Thr Lys Leu Ile Ala Met Lys Thr Glu Lys 775 780 785	2526
GAG GAG ATG AGC TTT GAG CCT GGT GAC CAG CCT GGC AGT GAG CTG GAC Glu Glu Met Ser Phe Glu Pro Gly Asp Gln Pro Gly Ser Glu Leu Asp 790 795 800	2574
AAC TTG GAG GAG ATT TTG GAT GAT TTG CAG AAT AGT CAA TTA CCA CAG Asn Leu Glu Glu Ile Leu Asp Asp Leu Gln Asn Ser Gln Leu Pro Gln 805 810 815 820	2622
CTT TTC CCA GAC ACG AGG CCA GGC GCC CCT GCT GGA TCA GTT GAC AAG Leu Phe Pro Asp Thr Arg Pro Gly Ala Pro Ala Gly Ser Val Asp Lys 825 830 835	2670
CAA GCC ATC ATC AAT GAC CTC ATG CAA CTC ACA GCT GAA AAC AGC CCT Gln Ala Ile Ile Asn Asp Leu Met Gln Leu Thr Ala Glu Asn Ser Pro 840 845 850	2718
GTC ACA CCT GTT GGA GCC CAG AAA ACA GCA CTG CGA ATT TCA CAG AGC Val Thr Pro Val Gly Ala Gln Lys Thr Ala Leu Arg Ile Ser Gln Ser 855 860 865	2766

FIG.1G

ACT TTT AAT AAC CCA CGA CCA GGG CAA CTG GGC AGG TTA TTG CCA AAC Thr Phe Asn Pro Arg Pro Gly Gln Leu Gly Arg Leu Pro Asn 870 875	2814
CAG AAT TTA CCA CTT GAC ATC ACA TTG CAA AGC CCA ACT GGT GCT GGA Gln Asn Leu Pro Leu Asp Ile Thr Leu Gln Ser Pro Thr Gly Ala Gly 885 890 900	2862
CCT TTC CCA CCA ATC AGA AAC AGT AGT CCC TAC TCA GTG ATA CCT CAG Pro Phe Pro Pro Ile Arg Asn Ser Ser Pro Tyr Ser Val Ile Pro Gln 905 910 915	2910
CCA GGA ATG ATG GGT AAT CAA GGG ATG ATA GGA AAC CAA GGA AAT TTA Pro Gly Met Met Gly Asn Gln Gly Met Ile Gly Asn Gln Gly Asn Leu 920 925 930	2958
GGG AAC AGT AGC ACA GGA ATG ATT GGT AAC AGT GCT TCT CGG CCT ACT Gly Asn Ser Ser Thr Gly Met Ile Gly Asn Ser Ala Ser Arg Pro Thr 935 940 945	3006
ATG CCA TCT GGA GAA TGG GCA CCG CAG AGT TCG GCT GTG AGA GTC ACC Met Pro Ser Gly Glu Trp Ala Pro Gln Ser Ser Ala Val Arg Val Thr 950 955 960	3054
TGT GCT GCT ACC ACC AGT GCC ATG AAC CGG CCA GTC CAA GGA GGT ATG Cys Ala Ala Thr Thr Ser Ala Met Asn Arg Pro Val Gln Gly Gly Met 965 970 980	3102
ATT CGG AAC CCA GCA GCC AGC ATC CCC ATG AGG CCC AGC CAG CCT Ile Arg Asn Pro Ala Ala Ser Ile Pro Met Arg Pro Ser Ser Gln Pro 985 990 995	3150

FIG.1H

GCG CAA AGA CAG ACG CTT CAG TCT CAG GTC ATG AAT ATA GGG CCA TCT Gly Gln Arg Gln Thr Leu Gln Ser 1000 1010	3198
GAA TTA GAG ATG AAC ATG GGG GGA CCT CAG TAT AGC CAA CAA CAA GCT Glu Leu Glu Met Asn Met Gly Gly Pro Gln Tyr Ser Gln Gln Gln Ala 1015 1020	3246
CCT CCA AAT CAG ACT GCC CCA TGG CCT GAA AGC ATC CTG CCT ATA GAC Pro Pro Asn Gln Thr Ala Pro Trp Pro Glu Ser 1035 1040	3294
CAG GCG TCT TTT GCC AGC CAA AAC AGG CAG CCA TTT GGC AGT TCT CCA Gln Ala Ser Phe Ala Ser Gln Asn Arg Gln Pro Phe Gly Ser Ser Pro 1045 1050	3342
GAT GAC TTG CTA TGT CCA CAT CCT GCA GCT GAG TCT CCG AGT GAT GAG Asp Asp Leu Leu Cys Pro His Pro Ala Ala Glu Ser Pro Ser Asp Glu 1065 1070	3390
GGA GCT CTC CTG GAC CAG CTG TAT CTG GCC TTG CCG AAT TTT GAT GGC Gly Ala Leu Leu Asp Gln Leu Tyr Leu Ala Leu Arg Asn Phe Asp Gly 1080 1085	3438
CTG GAG GAG ATT GAT AGA GCC TTA GGA ATA CCC GAA CTG GTC AGC CAG Leu Glu Glu Ile Asp Arg Ala Leu Gly Ile Pro Glu Leu Val Ser Gln 1095 1100	3486
AGC CAA GCA GTA GAT CCA GAA CAG TTC TCA AGT CAG GAT TCC AAC ATC Ser Gln Ala Val Asp Pro Glu Gln Phe Ser Ser Gln Asp Ser Asn Ile 1110 1115	3534

FIG.11

ATG CTG GAG CAG AAG GCG CCC GTT TTC CCA CAG CAG TAT GCA TCT CAG Met Leu Glu Gln Lys Ala Pro Val Phe Pro Gln Gln Tyr Ala Ser Gln 1125 1130 1135 1140	3582
GCA CAA ATG GCC CAG GGT AGC TAT TCT CCC ATG CAA GAT CCA AAC TTT Ala Gln Met Ala Gln Gly Ser Tyr Ser Pro Met Gln Asp Pro Asn Phe 1145 1150 1155	3630
CAC ACC ATG GGA CAG CGG CCT AGT TAT GCC ACA CTC CGT ATG CAG CCC His Thr Met Gly Gln Arg Pro Ser Tyr Ala Thr Leu Arg Met Gln Pro 1160 1165 1170	3678
AGA CCG GGC CTC AGG CCC ACG GGC CTA GTG CAG AAC CAG CCA AAT CAA Arg Pro Gly Leu Arg Pro Thr Gly Leu Val Gln Asn Gln Pro Asn Gln 1175 1180 1185	3726
CTA AGA CTT CAA CTT CAG CAT CGC CTC CAA GCA CAG CAG AAT GGC CAG Leu Arg Leu Gln Leu Gln His Arg Leu Gln Ala Gln Gln Asn Arg Gln 1190 1195 1200	3774
CCA CTT ATG AAT CAA ATC AGC AAT GTT TCC AAT GTG AAC TTG ACT CTG Pro Leu Met Asn Gln Ile Ser Asn Val Ser Asn Val Asn Leu Thr Leu 1205 1210 1215 1220	3822
AGG CCT GGA GTA CCA ACA CAG GCA CCT ATT AAT GCA CAG ATG CTG GCC Arg Pro Gly Val Pro Thr Gln Ala Pro Ile Asn Ala Gln Met Leu Ala 1225 1230 1235	3870
CAG AGA CAG AGG GAA ATC CTG AAC CAG CAT CTT CGA CAG AGA CAA ATG Gln Arg Gln Arg Glu Ile Leu Asn Gln His Leu Arg Gln Arg Gln Met 1240 1245 1250	3918

FIG. 1J

CAT CAG CAA CAG CAA GTT CAG CAA CGA ACT TTG ATG ATG AGA GGA CAA His Gln Gln Gln Val Gln Gln Arg Thr Leu Met Met Arg Gly Gln 1255 1260 1265	3966
GGG TTG AAT ATG ACA CCA AGC ATG GTG GCT CCT AGT GGT ATG CCA GCA Gly Leu Asn Met Thr Pro Ser Met Val Ala Pro Ser Gly Met Pro Ala 1270 1275 1280	4014
ACT ATG AGC AAC CCT CGG ATT CCC CAG GCA AAT GCA CAG CAG TTT CCA Thr Met Ser Asn Pro Arg Ile Pro Gln Ala Asn Ala Gln Gln Phe Pro 1285 1290 1295 1300	4062
TTT CCT CCA AAC TAC GGA ATA AGT CAG CAA CCT GAT CCA GGC TTT ACT Phe Pro Pro Asn Tyr Gly Ile Ser Gln Gln Pro Asp Pro Gly Phe Thr 1305 1310 1315	4110
GGG GCT ACG ACT CCC CAG AGC CCA CTT ATG TCA CCC CGA ATG GCA CAT Gly Ala Thr Thr Pro Gln Ser Pro Leu Met Ser Pro Arg Met Ala His 1320 1325 1330	4158
ACA CAG AGT CCC ATG ATG CAA CAG TCT CAG GCC AAC CCA GCC TAT CAG Thr Gln Ser Pro Met Met Gln Gln Ser Gln Ala Asn Pro Ala Tyr Gln 1335 1340 1345	4206
GCC CCC TCC GAC ATA AAT GGA TGG GCG CAG GGG AAC ATG GGC GGA AAC Ala Pro Ser Asp Ile Asn Gly Trp Ala Gln Gly Asn Met Gly Gly Asn 1350 1355 1360	4254
AGC ATG TTT TCC CAG CAG TCC CCA CCA CAC TTT GGG CAG CAA GCA AAC Ser Met Phe Ser Gln Gln Ser Pro Pro His Phe Gly Gln Gln Ala Asn 1365 1370 1375 1380	4302

FIG.1K

ACC AGC ATG TAC AGT AAC AAC ATG AAC ATC AAT GTG TCC ATG GCG ACC Thr Ser Met Tyr 1385 Ser Asn Asn Met Asn Ile Asn Val Ser Met Ala Thr 1390 1395	4350
AAC ACA GGT GGC ATG AGC AGC ATG AAC CAG ATG ACA GGA CAG ATC AGC Asn Thr Gly Gly Met Ser Ser Met Asn Gln Met Thr Gly Gln Ile Ser 1400 1405 1410	4398
ATG ACC TCA GTG ACC TCC GTG TCT ACG TCA GGG CTG TCC TCC ATG GGT Met Thr Ser Val Thr Ser Val Ser Thr Ser Gly Leu Ser Ser Met Gly 1415 1420 1425	4446
CCC GAG CAG GTT AAT GAT CCT GCT CTG AGG GGA GGC AAC CTG TTC CCA Pro Glu Gln Val Asn Asp Pro Ala Leu Arg Gly Gly Asn Leu Phe Pro 1430 1435 1440	4494
AAC CAG CTG CCT GGA ATG GAT ATG ATT AAG CAG GAG GGA GAC ACA ACA Asn Gln Leu Pro Gly Met Asp Met Ile Lys Gln Glu Gly Asp Thr 1445 1450 1455 1460	4542
CGG AAA TAT TGC TGACACTGCT GAAGCCAGTT GCTTCTTCAG CTGACCGGGC Arg Lys Tyr Cys	4594
TCACCTTGCTC AAAACACTTC CAGTCTGGAG AGCTGTGTCT ATTGTTTCA ACCCAACTGA	4654
CCTGCCAGCC GGTTCTGCTA GAGCAGACAG GCCTGGCCCT GGTTCCCAGG GTGGCGTCCA	4714
CTCGGCTGTG GCAGGAGGAG CTGCCCTCTC TCTTGACAGT CTGAAGCTCG CATCCAGACA	4774
GTGCTCAGT CTGTTCCCTG CATTACACCTT AGTGCAACTT AGATCTCTCC TCCCCAAGTA	4834

FIG.1L

AATGTTGACA GGCCAATTTC ATACCCATGT CAGATTGAAT GTATTTAAAT GTATGTATTT 4894
 AAGGAGAACC ATGCTCTTGT TCTGTTCCCTG TTCCGGTTCCA GACACTGGTT TCTTGCTTTG 4954
 TTTTCCCTGG CTAACAGTCT AGTGCCAAAG ATTAAGATTT TATCTGGGGG AAAGAAAAGA 5014
 ATTTTTTAAA AAATTAAACT AAAGATGTTT TAAGCTAAAG CCTGAATTTG GGATGGAAGC 5074
 AGGACAGACA CCGTGGACAG CGCTGTATTT ACAGACACAC CCAGTCCGTG AAGACCAACA 5134
 AAGTCACAGT CGTATCTCTA GAAAGCTCTA AAGACCATGT TGGAAAGAGT CTCCAGTTAC 5194
 TGAACAGATG AAAAGGAGCC TGTGAGAGGG CTGTTAACAT TAGCAAAATAT TTTTTCCTTG 5254
 TTTTTCCTTT GTTAAACCA AACTGGTTCA CCTGAATCAT GAATTGAGAA GAAATAATTT 5314
 TCATTCTCTAA ATTAAGTCCC TTTTAGTTTG ATCAGACAGC TTGAATCAGC ATCCTCTCTT 5374
 CCTGTTCAGC CTGACTCTTC CCTTCCCTTC TCTCATTTCC CATACTCCCT ATTTTCATTC 5434
 CTTTTTTAAA AAATAATATA AGCTACAGAA ACCAGGTAAG CCCTTTATTT CCTTAAATGT 5494
 TTTGCCAGCC ACTTACCAAT TGCTAAGTAT TGAATTTTTCAG AAAAAAAAAA TGCAATTTACT 5554
 GGCAAGGAGA AGAGCAAAGT TAAGGCTTGA TACCAATCGA GCTAAGGATA CCTGCTTTGG 5614
 AAGCATGTTT ATTCTGTTCC CCAGCAACTC TGGCCTCCAA AATGGGAGAA ACGCCAGTGT 5674
 GTTTAAATTG ATAGCAGATA TCAGCAGAGA TTTAACCCTC GCCATGTGTT TTTTATTTTG 5734
 TTTTTTAGCA GTGCTGACTA AGCCGAAGTT TTGTAAGGTA CATAAAATCC AATTTATATG 5794

FIG.1M

TAAACAAGCA	ATAATTTAAG	TTGAGAACTT	ATGTGTTTTA	ATTGTATAAT	TTTTGTGAGG	5854
TATACATATT	GTGGAATTGA	CTCAAAAATG	AGGTACTTCA	GTATTAAATT	AGATACTCTC	5914
ATAGCAATGT	CTCCTAAAGG	TGTTTTGTAA	AGGATAICAA	TGCCTTGATT	AGACCTAATT	5974
TGTAGACTTA	AGACTTTTTA	TTTTCTAAAC	CTTGTGATTG	TGCTTATAAG	TCATTTATCT	6034
AATCTATATG	ATATGCAGCC	GCTGTAGGAA	CCAATTCTTG	ATTTTATAT	GTTTATATTC	6094
TTTCTTAATG	AACCTTAGAA	AGACTACATG	TTACTAAGCA	GGCCACTTTT	ATGGTTGTTT	6154
TT						6156

FIG.1N

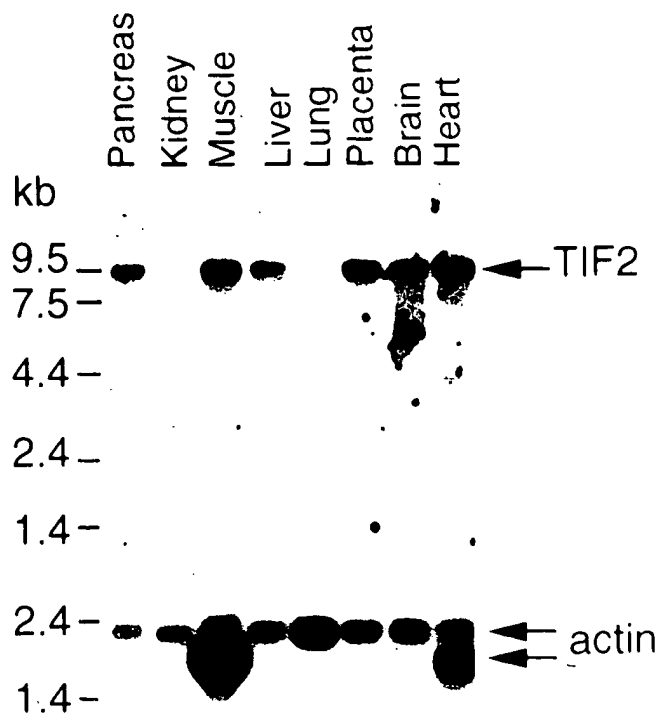


FIG.2C

	631L	STN	NLS
1	100	100	100
2	100	100	100
3	100	100	100
4	100	100	100
5	100	100	100
6	100	100	100
7	100	100	100
8	100	100	100
9	100	100	100
10	100	100	100
11	100	100	100
12	100	100	100
13	100	100	100
14	100	100	100
15	100	100	100
16	100	100	100
17	100	100	100
18	100	100	100
19	100	100	100
20	100	100	100
21	100	100	100
22	100	100	100
23	100	100	100
24	100	100	100
25	100	100	100
26	100	100	100
27	100	100	100
28	100	100	100
29	100	100	100
30	100	100	100
31	100	100	100
32	100	100	100
33	100	100	100
34	100	100	100
35	100	100	100
36	100	100	100
37	100	100	100
38	100	100	100
39	100	100	100
40	100	100	100
41	100	100	100
42	100	100	100
43	100	100	100
44	100	100	100
45	100	100	100
46	100	100	100
47	100	100	100
48	100	100	100
49	100	100	100
50	100	100	100
51	100	100	100
52	100	100	100
53	100	100	100
54	100	100	100
55	100	100	100
56	100	100	100
57	100	100	100
58	100	100	100
59	100	100	100
60	100	100	100
61	100	100	100
62	100	100	100
63	100	100	100
64	100	100	100
65	100	100	100
66	100	100	100
67	100	100	100
68	100	100	100
69	100	100	100
70	100	100	100
71	100	100	100
72	100	100	100
73	100	100	100
74	100	100	100
75	100	100	100
76	100	100	100
77	100	100	100
78	100	100	100
79	100	100	100
80	100	100	100
81	100	100	100
82	100	100	100
83	100	100	100
84	100	100	100
85	100	100	100
86	100	100	100
87	100	100	100
88	100	100	100
89	100	100	100
90	100	100	100
91	100	100	100
92	100	100	100
93	100	100	100
94	100	100	100
95	100	100	100
96	100	100	100
97	100		

```

1 MSGMGENTSDPSRAEIRKRKECPDQLGPSKRNTEKRNREQENKYIEELAEIIFANFNDIDNFNFKPDKCAILKETVKQIRQIKEQEKAANAANIDEVQKS
101 DVSSICQGVIDKDALGPMLEALDGGFFVNVNLEGWVFWSENVTOYLRYNQEELMNKSVYSILHVGDHTEFVKNLPKSIVNGGSWSGEPFRNRNHSHTFNC
201 RMLVKPLPDSEEECHDNOEAHQKYE TMOQF AVSOPKS IKEEGEDLOSLC VARRVPNMKEPVL PSSESF TTRDOLQCKITSLDSTIMRAAMKPGCWEDLV
301 RRCIQKFHAQHEGESVYAKRHHHEVLRQGLAFSQIYRFSLSDGTLVAAQTKSKL IRSQITNEPQLVLSLHMLHREQNVCMVNPDLTGQTMCKPLNPIS
      :|:.....|:..: .....|:
MSIPRVNPSWNPSIS...PAHGVARSSITLPPS

```

SRC-1

[illegible]

497 ACSPIPPSQFSPAGS.LHSPVGVCSST..GNHSYTNSSLNALQALSEGHGVSLGSSLASPDLMKGNLQNSPVNMNPPPLSKMGSLDSKDCFCGLYGEPS
 118 ATRPRMPNNSFPNNISTLSPPVGMTSSACNNINRYSNIPVTSLQGMNEGPNNSVGFSASSPVLQOMSSQNSPRLNIQP.AKAESKDKNKEIASTLNEMI

→ TIF2.1

[illegible][illegible]

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776 ASNTKL I AMK TE K E M S F E C D Q P G S E L D N L E E I L D D L O N . S Q L P Q L F P D T R P C A P A G S V D K Q A I I N D L M Q L T A E N S P V T P V G A Q K T A L R I S Q S T F N N P R
..... | ..... | : : : : : | : : : : : | : : : : : | : : : : : | : : : : : |
404 CNTNPTM IKA TP EE IKI EAQSOFTADI DOE DOI PTI FKAQAI PGJ CFETORMGAVTSYTI KSFI TIKSFII PASI OSATAR
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FIG. 3A

875 PGQLGRLLPNQNLPLDITLQSPITGAGFPPIRNSSPYSVTPQPCMGNGQMGICNGNLSSTGMIIGNSASRPTMPSCGEWAPQSSAVRVTCAATTSAMNIR
 481PTSLNR

975 PVQCGMIRNPAASIPMRPSSQPGQRQLQSQVMNIGPSELEMMGGPQYSSQQAAPPNQTAIPWPESILPIDQASFAQNRPFGSSPDDLCPHPAAESPS
 488LPELEAIDNQFC.QPGTGDQIPWTINNTVTAINQ...SKSEDQCISQDELCPPTTVEGRN

1075 DEGALLDQL..YLALNFDGLEEIDRALGIPELV.SQSAVDPEQFSSQDSN..IMLEQKAPVFPQYASQAQAQGSYSMPQDPNFPNFTMGQRPSYATLIR
 548 DEKALLEQLVSFLSGKDETELAEIDRALGIDKLVOGGGLDVLSEFPQQAATPPLIMEERNLYSQPYSSPFTANLP.SPFQG...MVRQKPSLGTMP

1170 MQ...PRPGLRPTGLVQ.....NOPNQLRLQLQHRQLAQ.....QNRQPLMNQISNVSNVNLTLRPG...VPTQAPINAQMLAQQRREILNQHLR
 643 VQVTPRGAFFSGMGMQPRQTLNRPPAAPNQLRLQLQORLQCGQQQLIHONROAILNQFAATAPVGINMRSGMQQQITPQPPLNAQMLAQQRRELYSQQHR
 TIF2.1
 1249 QROMHQQQQVQQRITLMMRCQGLNMTPSWVAPSGMPATMSNPRIPQANAQOFFPPPNYG.....
 743 QRQLIQ.....QQRAMLRRQGSF..GNNLPPSSGLPVQTCNPRLPQCAPQQFPYPPNYGTPNPGTPPASTSPFSQLAANPEASLANRNSMWSRGMTGNIGGQ

1307ISQPDPCFTGATTQPSPLMSPRMAHTQSPMMQSQOANPAYQAPSDINGWAQGNMSGGNSMFQSSPPHFGQQANTSMYSN
 837 FGTGINPQMQQNVFYPCAGMVPQCEANFAPSLSPGSSMVPMPIPPPQSSLLQOTPPASGYQSP.DMKAWQCGAIGNNNVFSQAVQNO.PTPAQPGVY.N
 dnSRC-1

1387 NMNINVSMAINTGGMSSNQMTGQISMTSVTSVSTGSLSSMGPEQVNDPALPGCNLFPNQLPGMDMIKQEGDTRKYC*
 934 NMSITVSMAGGNTNVQNMNPMMAQMQM...SSLQMPGMINTVCPEQINDPALRHTGLYCNQLSSDILLKTEADGTQQVQVQVFADVQCTVNLVGGDPYLN

FIG. 3B

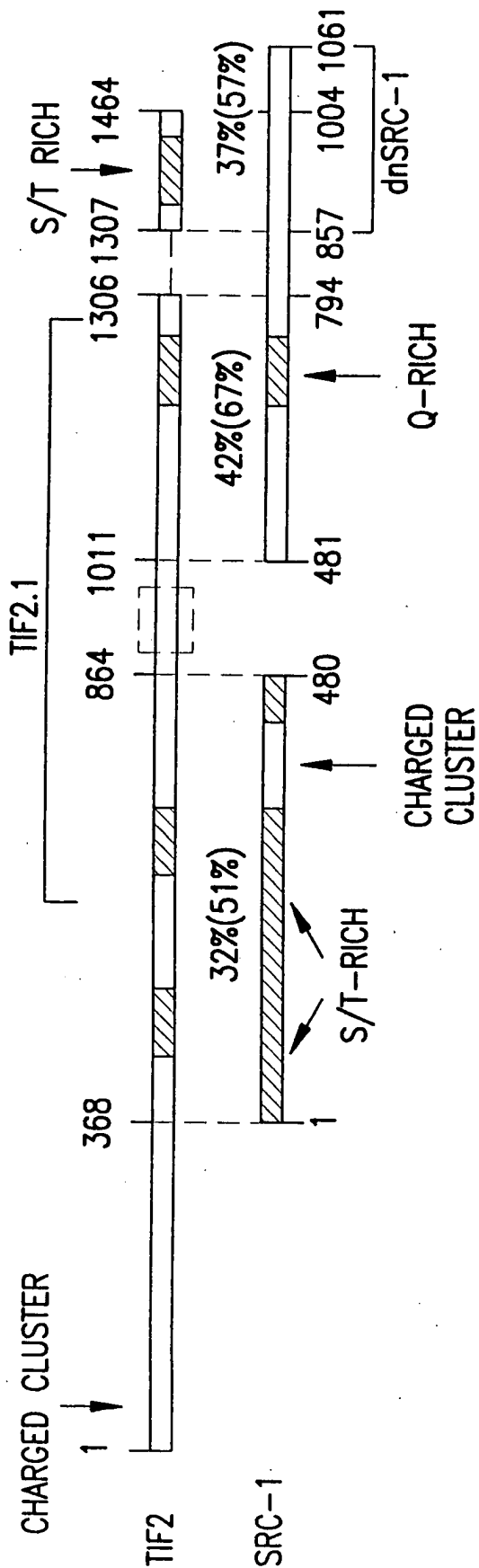
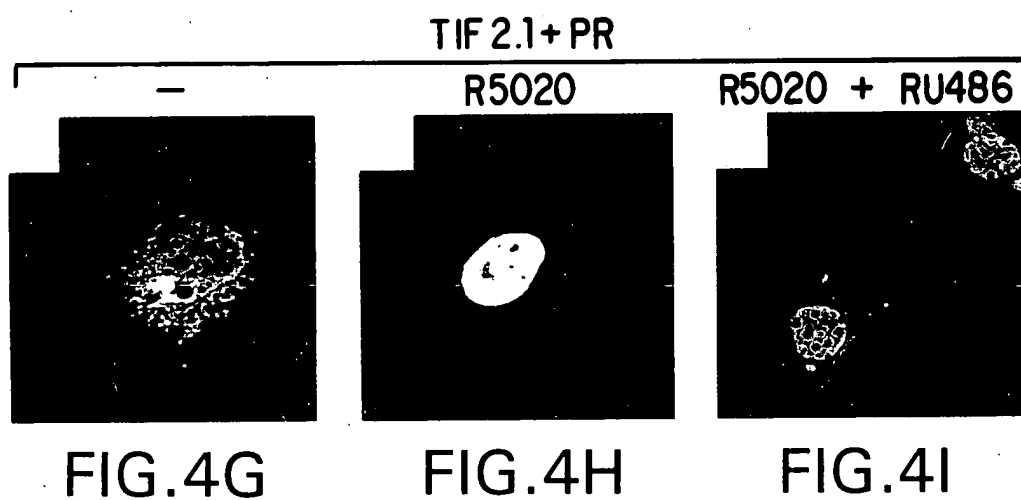
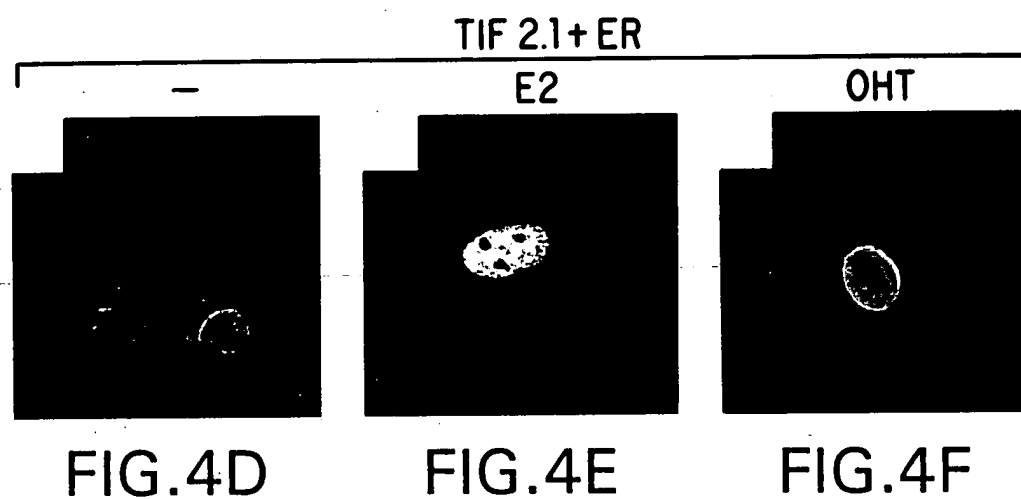
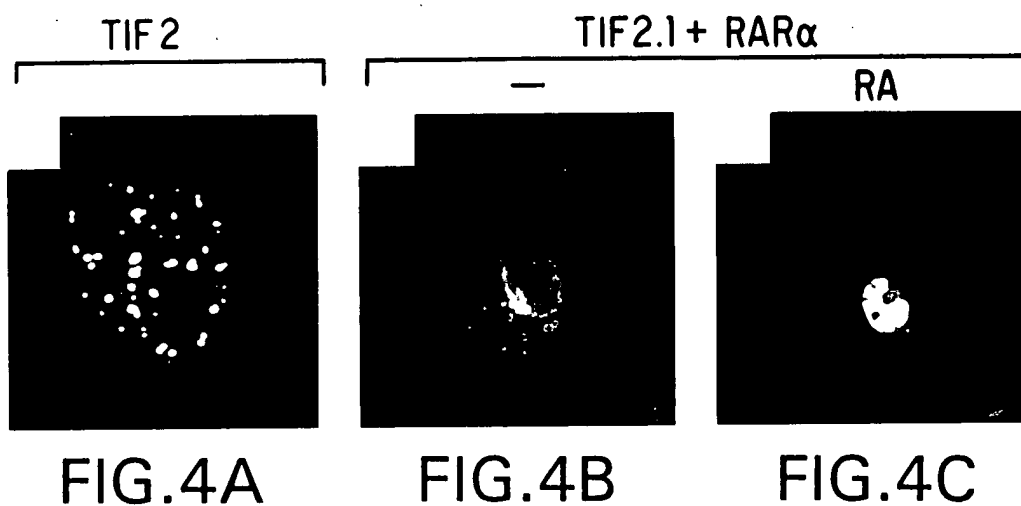


FIG. 3C



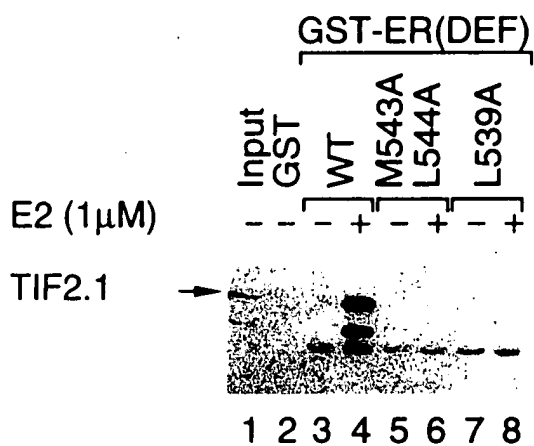


FIG. 4K

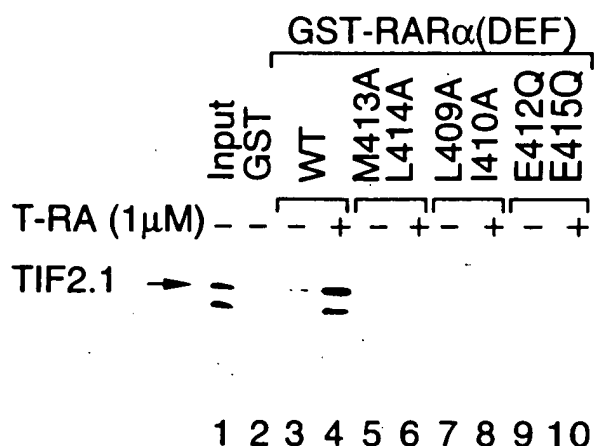


FIG. 4L

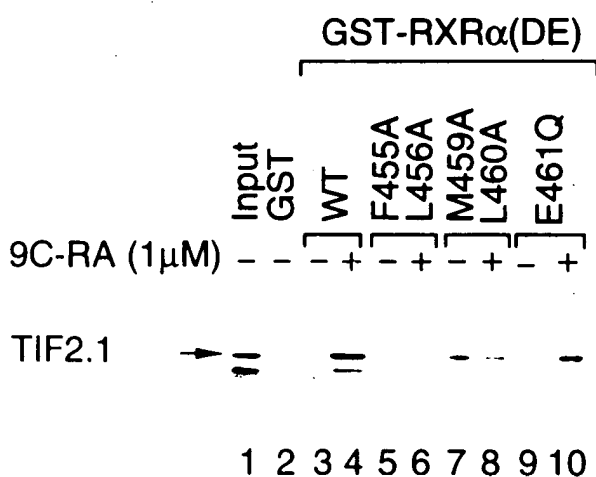


FIG. 4M

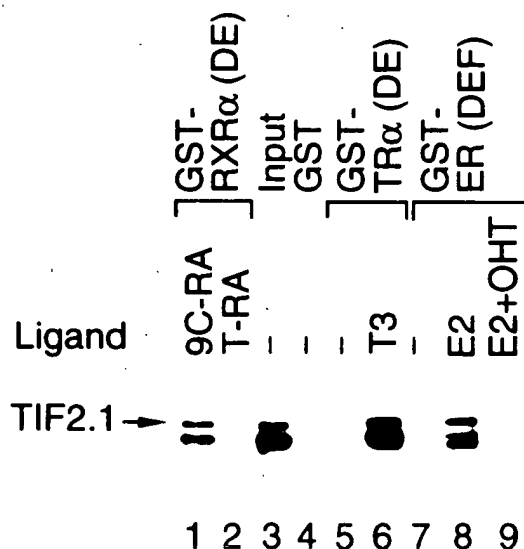


FIG. 4N

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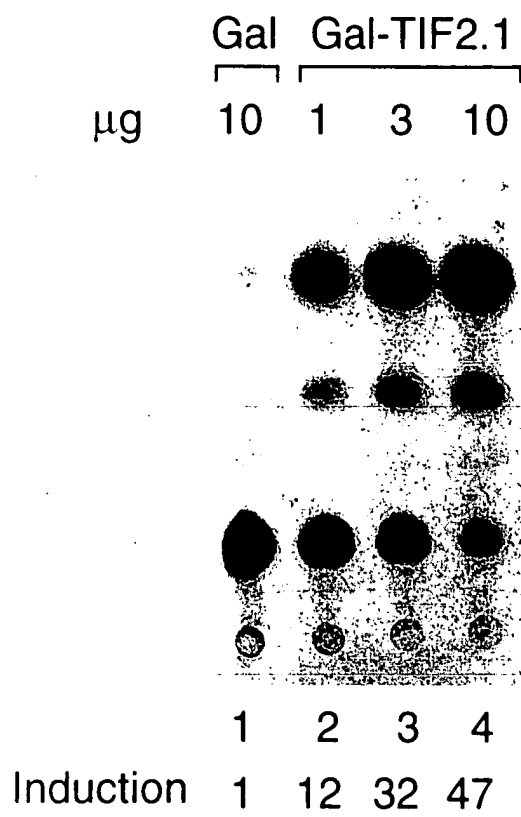


FIG.5A

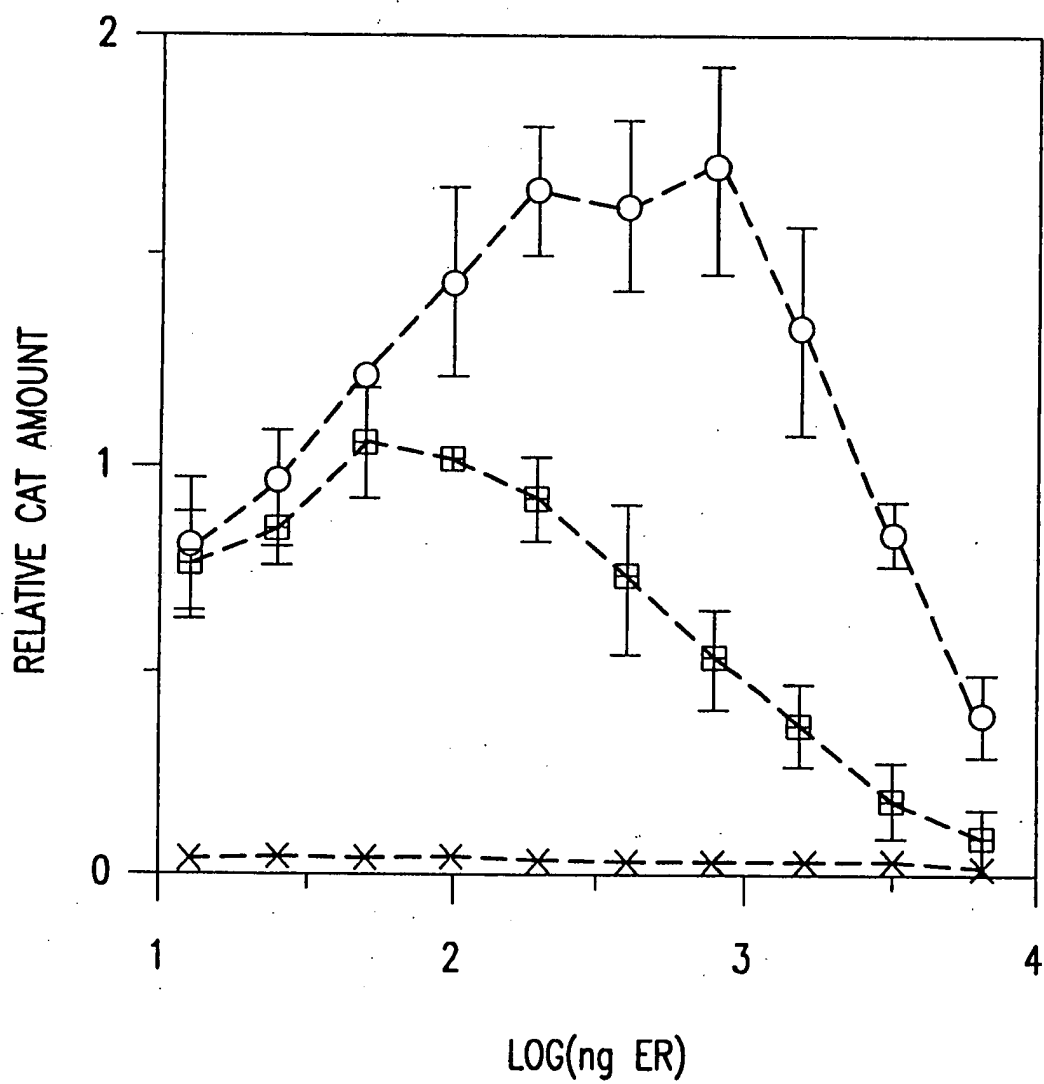


FIG.5B

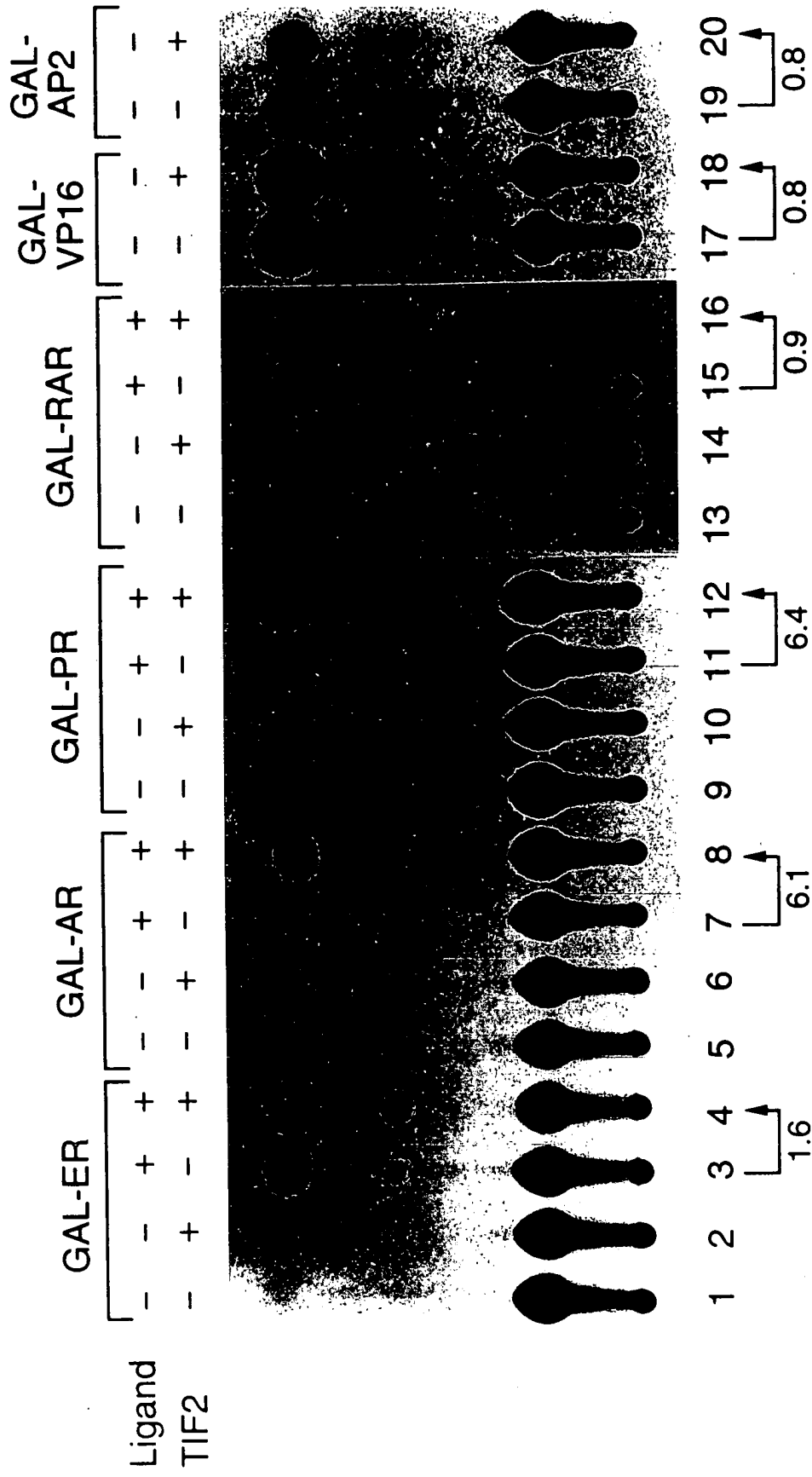


FIG.5C

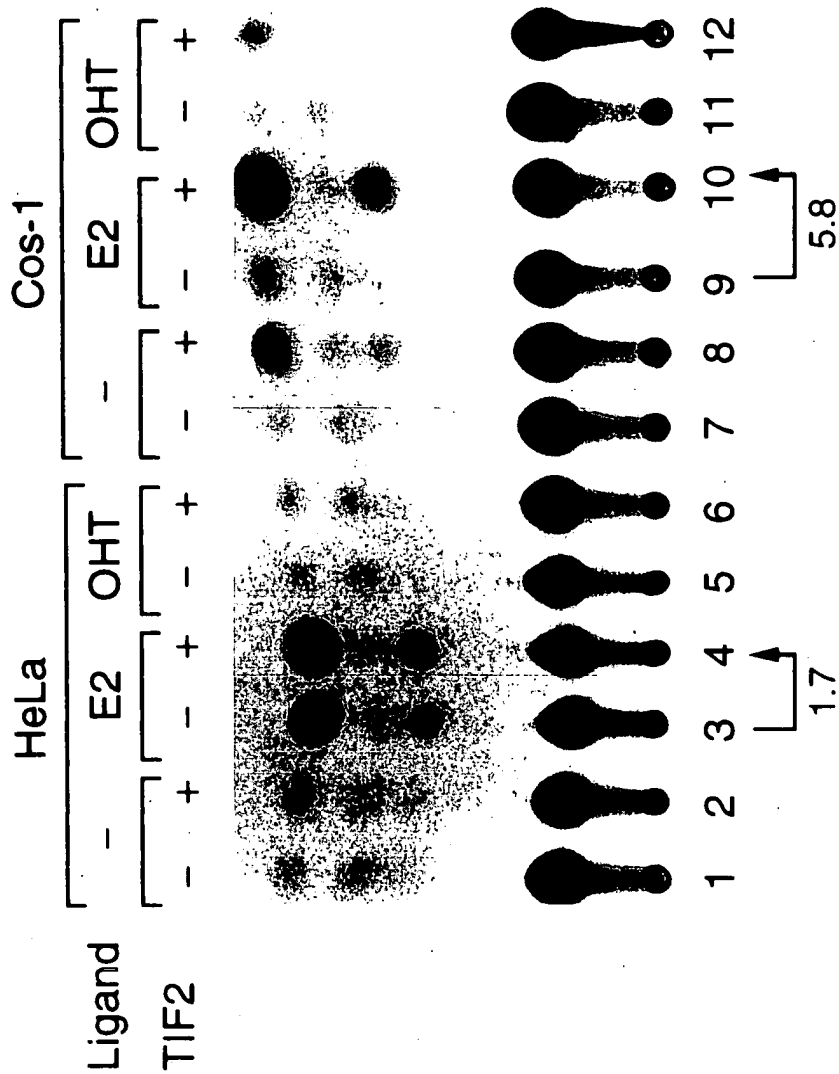


FIG.5E

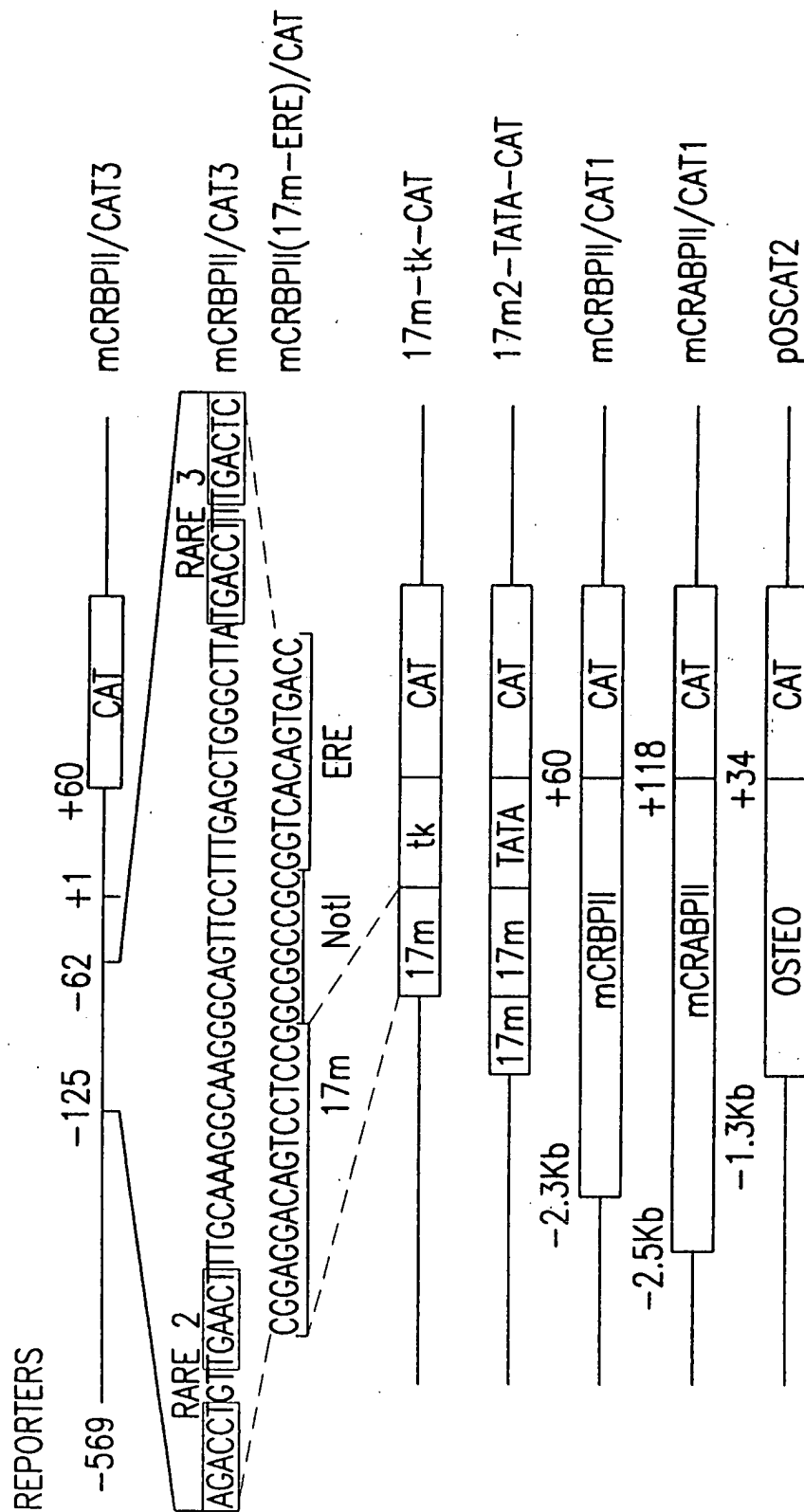


FIG.6A

RECEPTORS

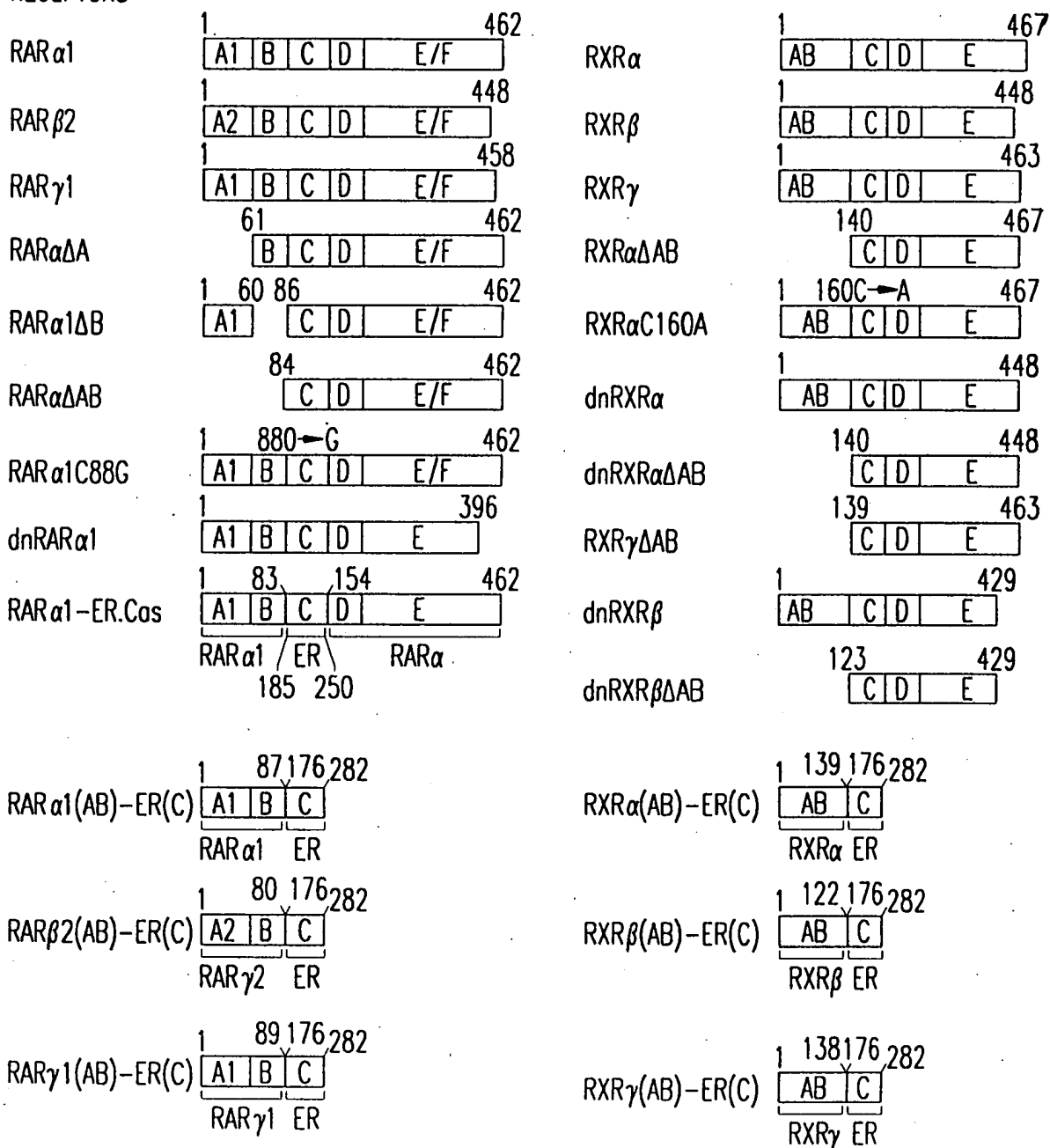


FIG.6B

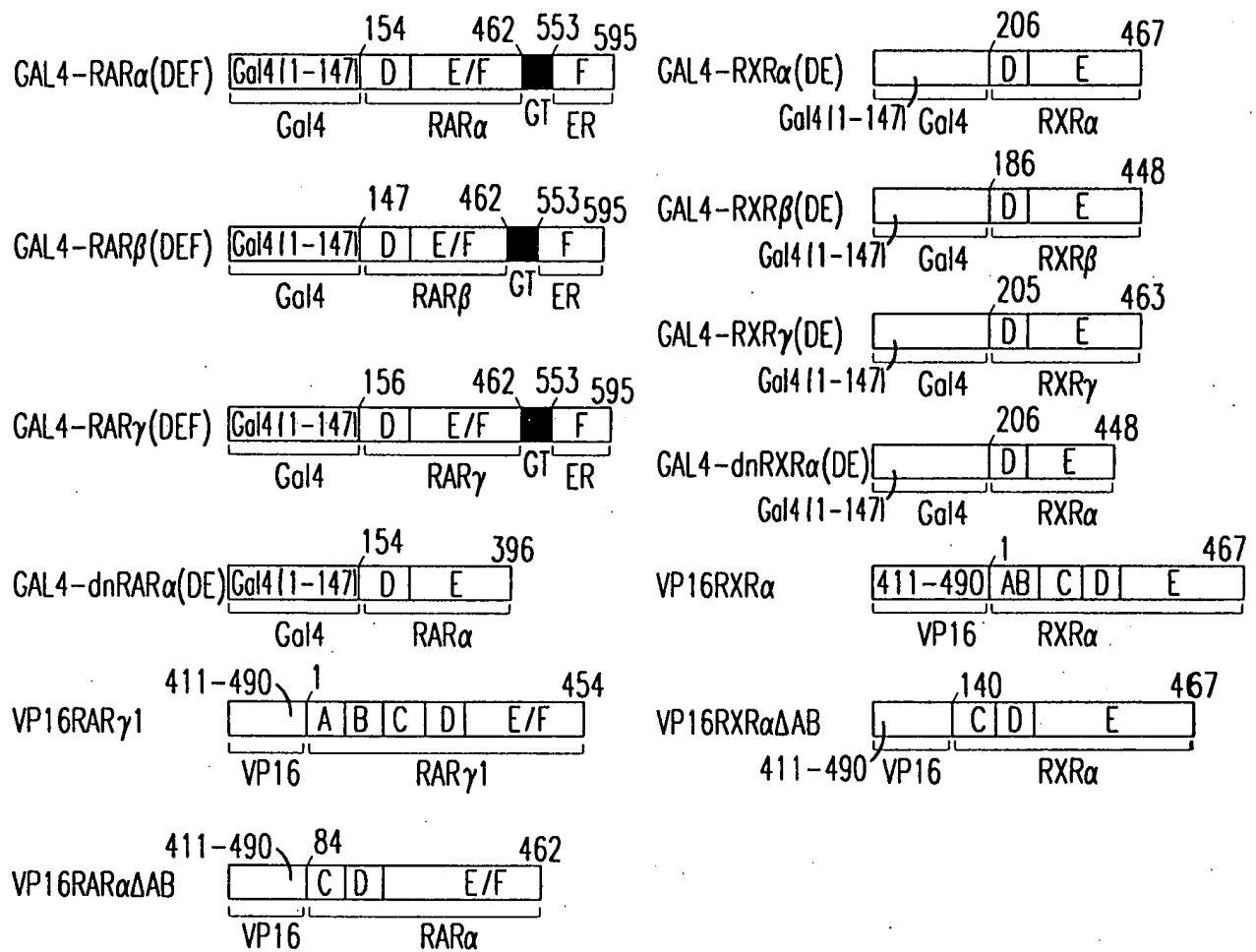


FIG.6C

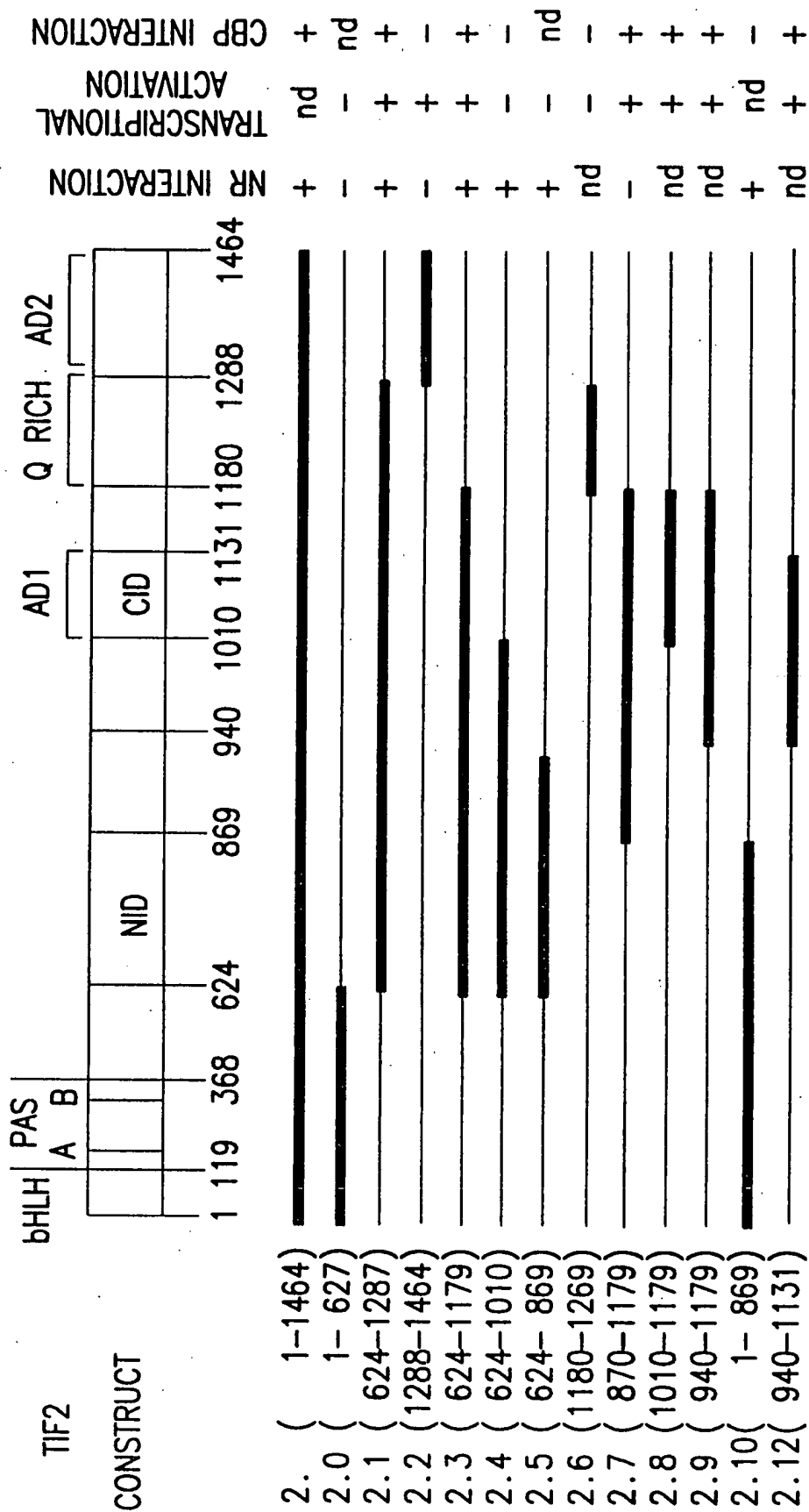


FIG.7A

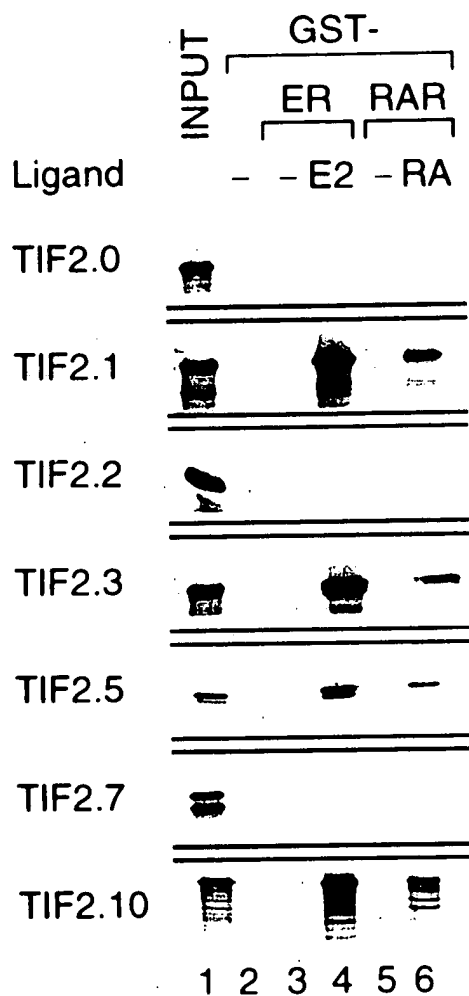
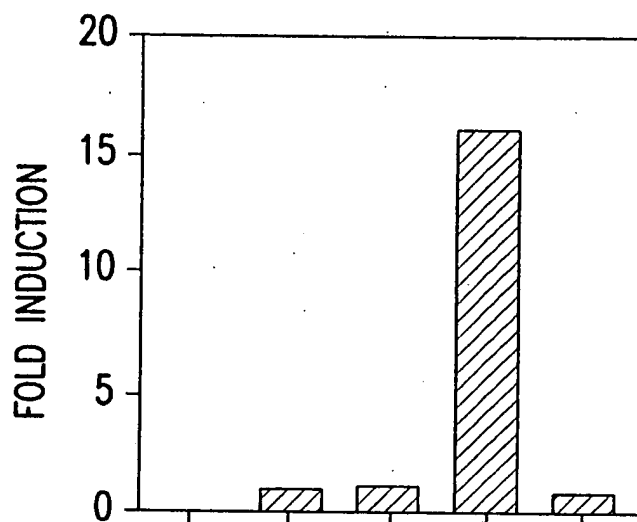


FIG. 7B



FIG. 7D



GAL	+	-	-	-	-
VP16	+	-	-	-	-
GAL-CBP*	-	+	+	+	+
VP16-TIF2.0	-	-	+	-	-
VP16-TIF2.1	-	-	-	+	-
VP16-TIF2.2	-	-	-	-	+

FIG.7E

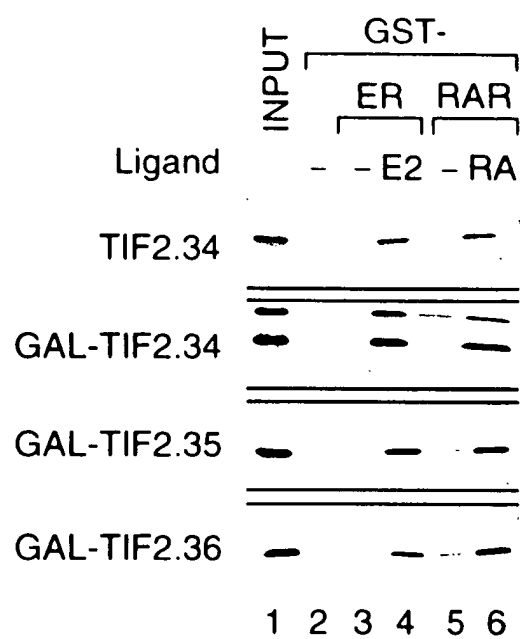


FIG.8C

	NR BOX(I)	NR BOX(II)	NR BOX(III)
SRC-1	629-TSHN[VQ]LTTTA→→→679-SHSSLTARHKL[HR]LQE→→→742-KDHQL[RYL]DKDE.KD→→→		
TIF2	637-GQTRL[QL]LTTKS→→→679-HGTS[SLKEKHKL]HRL[QDS]→→→742-.NALL[RYL]DKDDTKD→→→		
p/CIP	610-GHK[KL]QLLTCSS→→→667-HGSL[QEKHRL]HKL[QNG]→→→726-.NNALL[RYL]DRDDPSD→→→		
TIF2.34	624E→→→	→→→	P775
TIF2.35	624E→→→	→→→S-697	
TIF2.36		698-S→→→	P775
TIF2.1	624E→→→	→→→	S1287
TIF2.1m1	624E→→→AA→→→	→→→	S1287
TIF2.1m2	624E→→→	→→→AA→→→	S1287
TIF2.1m3	624E→→→	→→→	AA→→→S1287
TIF2.1m12	624E→→→AA→→→	→→→AA→→→	S1287
TIF2.1m13	624E→→→AA→→→	→→→	AA→→→S1287
TIF2.1m23	624E→→→	→→→AA→→→	AA→→→S1287
TIF2.1m123	624E→→→AA→→→	→→→AA→→→	AA→→→S1287

FIG.8A

NR box

TIF1 α	724	-	RSILTSLLLNSS	-	735
RIP140	933	-	FNVLKQLLSEN	-	944
TRIP3	95	-	SATLRSLLLNPH	-	106
TIF2(I)	638	-	QTKLLQLLTTKS	-	648
TIF2(II)	687	-	HKILHRLQLDSS	-	698
TIF2(III)	742	-	NALLRYLLDKDD	-	753

FIG. 8B

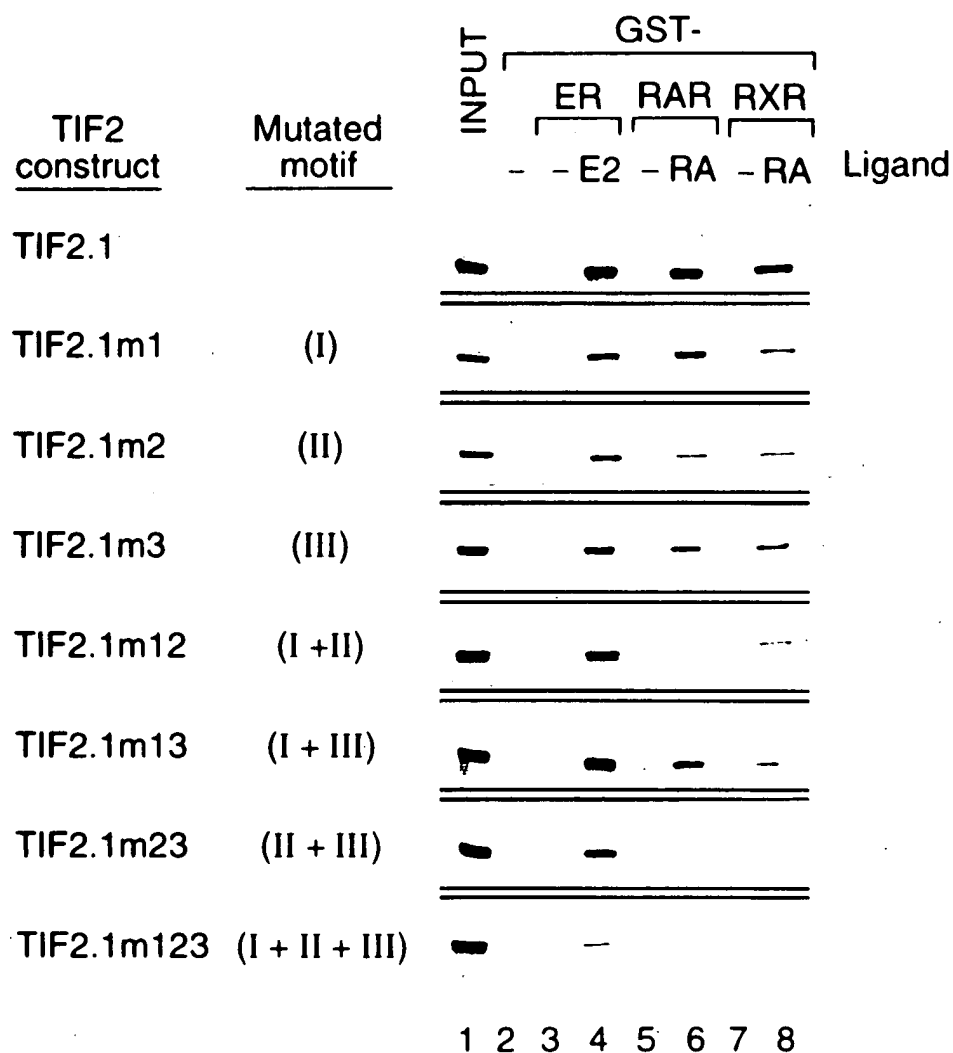


FIG.8D

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Gal-ER OR GST-ER

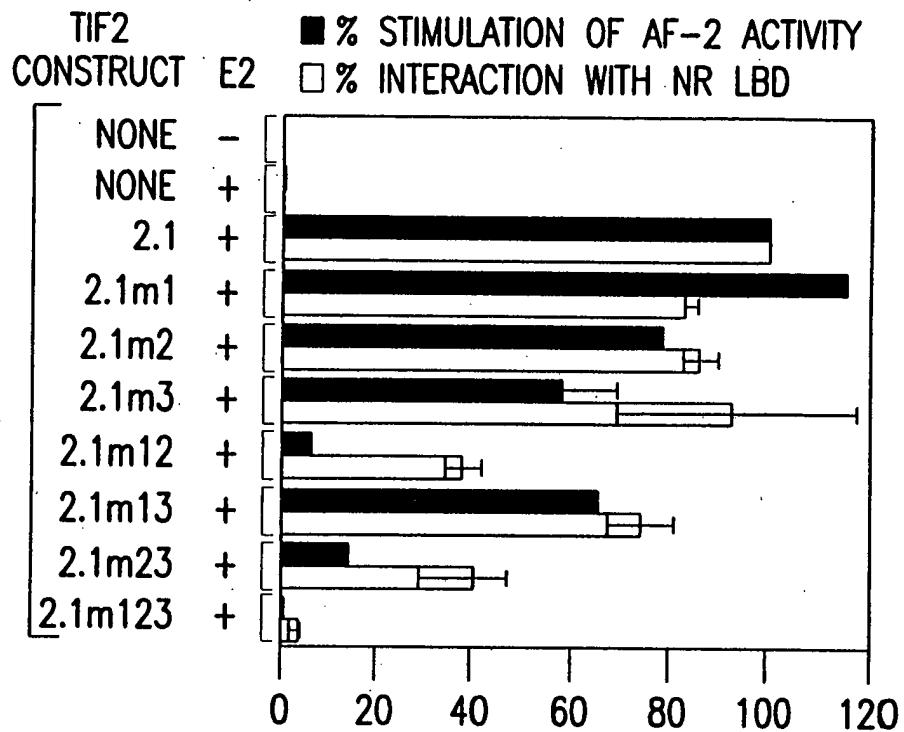


FIG.8E

Gal-RXR OR GST-RXR

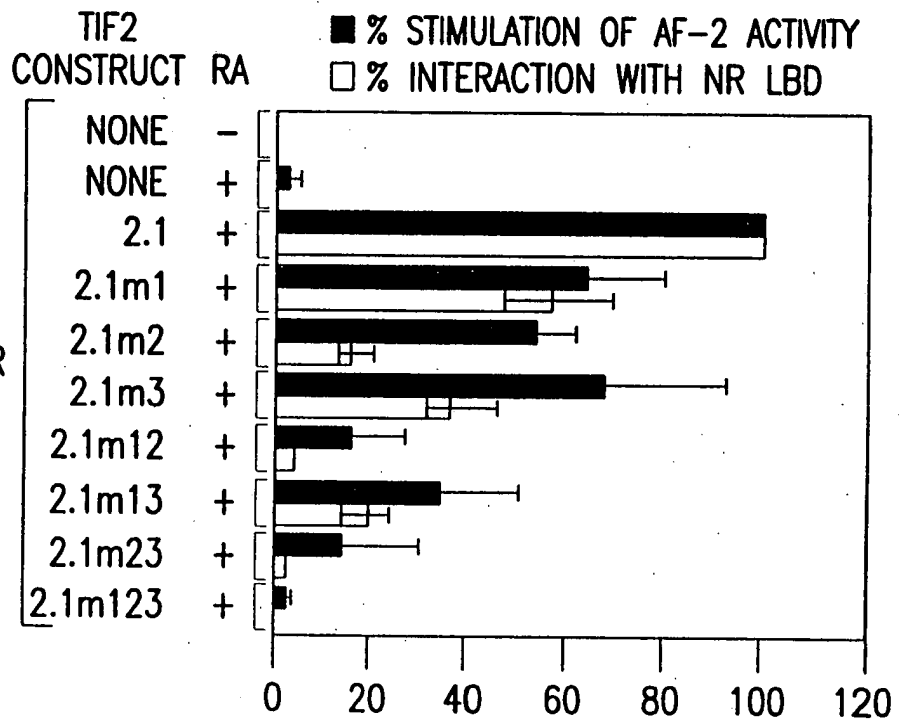


FIG.8F

Fold Induction of
(17m)5-TATA-CAT

GAL-TIF	<u>Cos-1</u>	<u>HeLa</u>
2.13	462 \pm 9	704 \pm 33
2.14	392 \pm 13	674 \pm 23
2.15	279 \pm 21	316 \pm 49
2.16	390 \pm 34	597 \pm 54
2.17	389 \pm 50	581 \pm 58
2.18	314 \pm 16	432 \pm 19
2.19	341 \pm 67	777 \pm 30
2.20	107 \pm 11	314 \pm 27
2.21	129 \pm 8	173 \pm 22
2.24	< 2	< 2
2.27	< 2	< 2
2.29	< 2	< 2
2.30	98 \pm 13	117 \pm 6
2.31	35 \pm 3	34 \pm 3
2.32	2.8 \pm 0.2	5.9 \pm 0.9
2.32(LLL)	1.4 \pm 0.2	1.5 \pm 0.1
2.32(DQ)	1.7 \pm 0.3	1.2 \pm 0.2

FIG.9B

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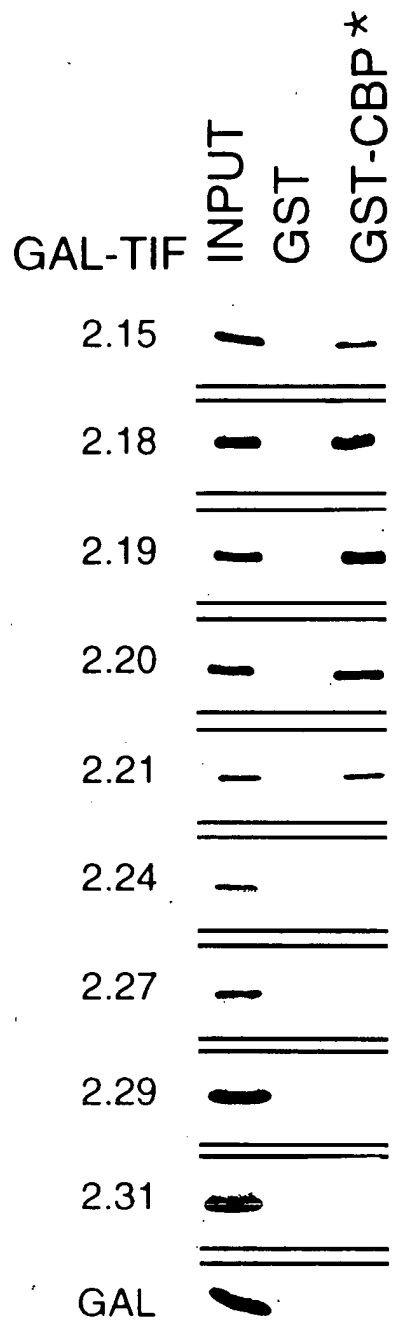
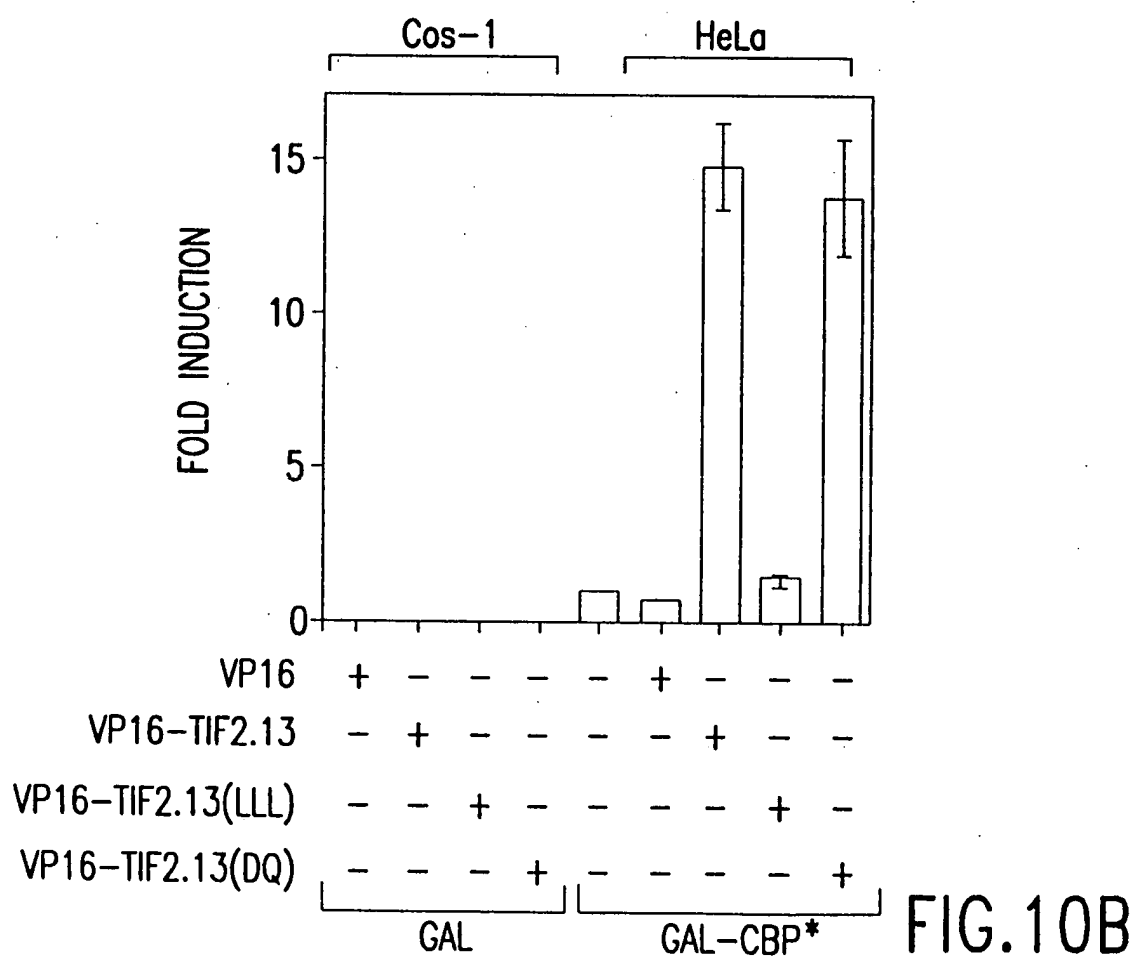
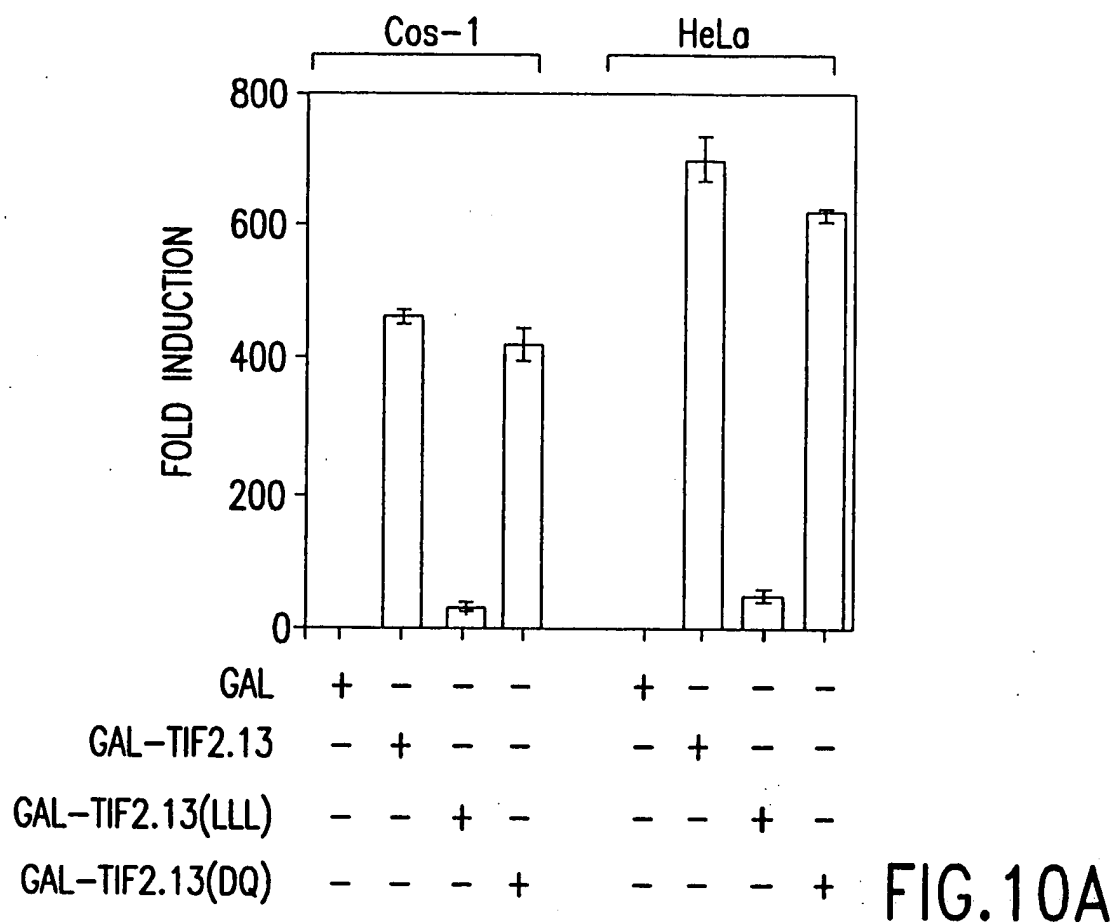


FIG.9C



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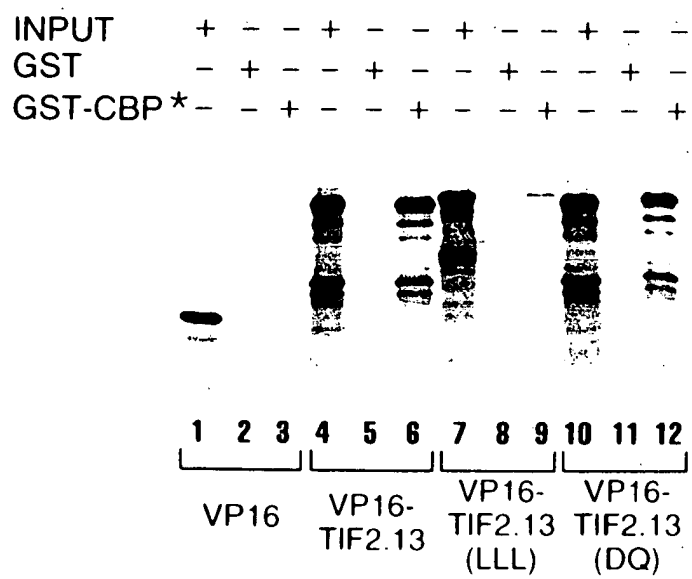


FIG.10C

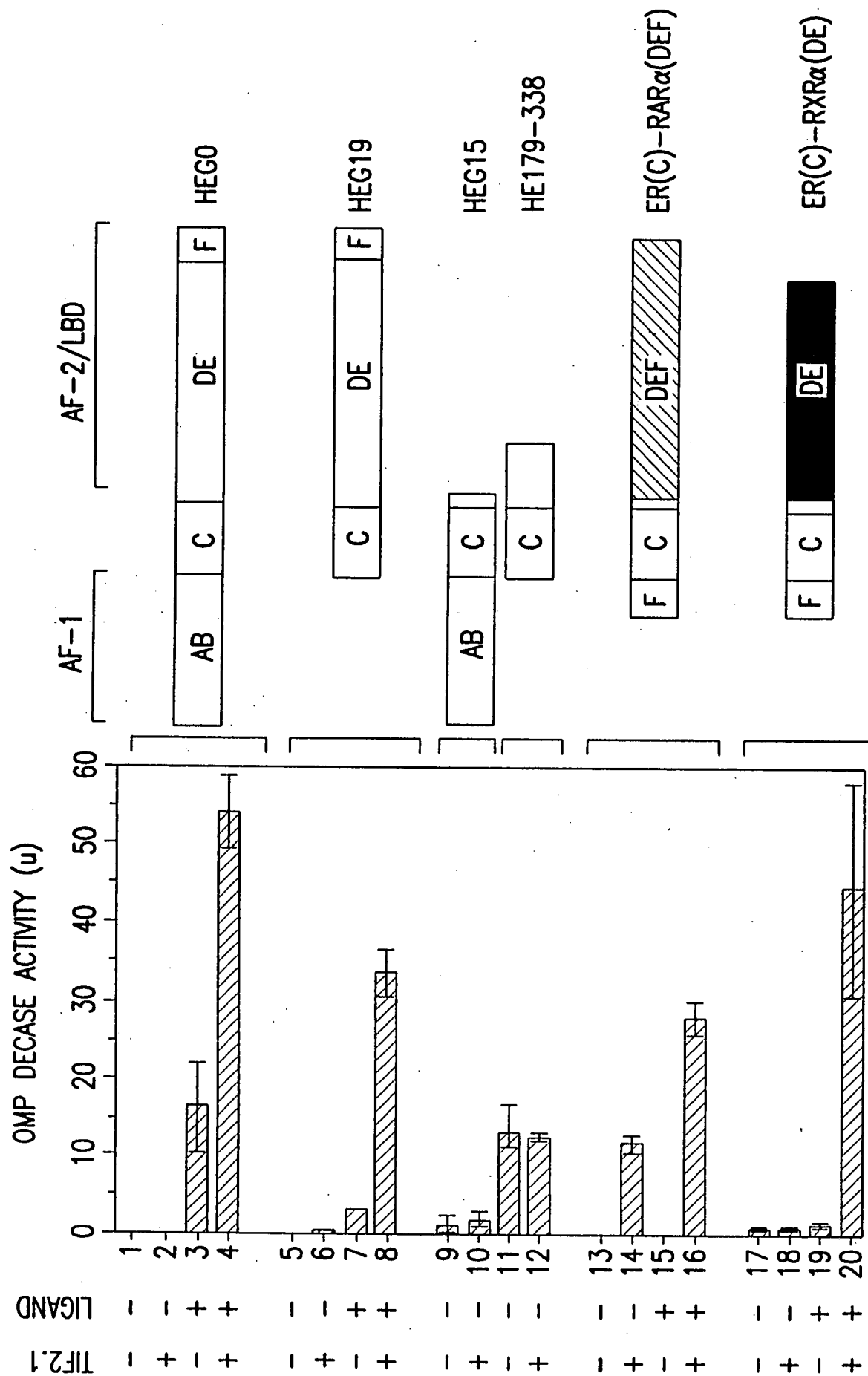


FIG.11

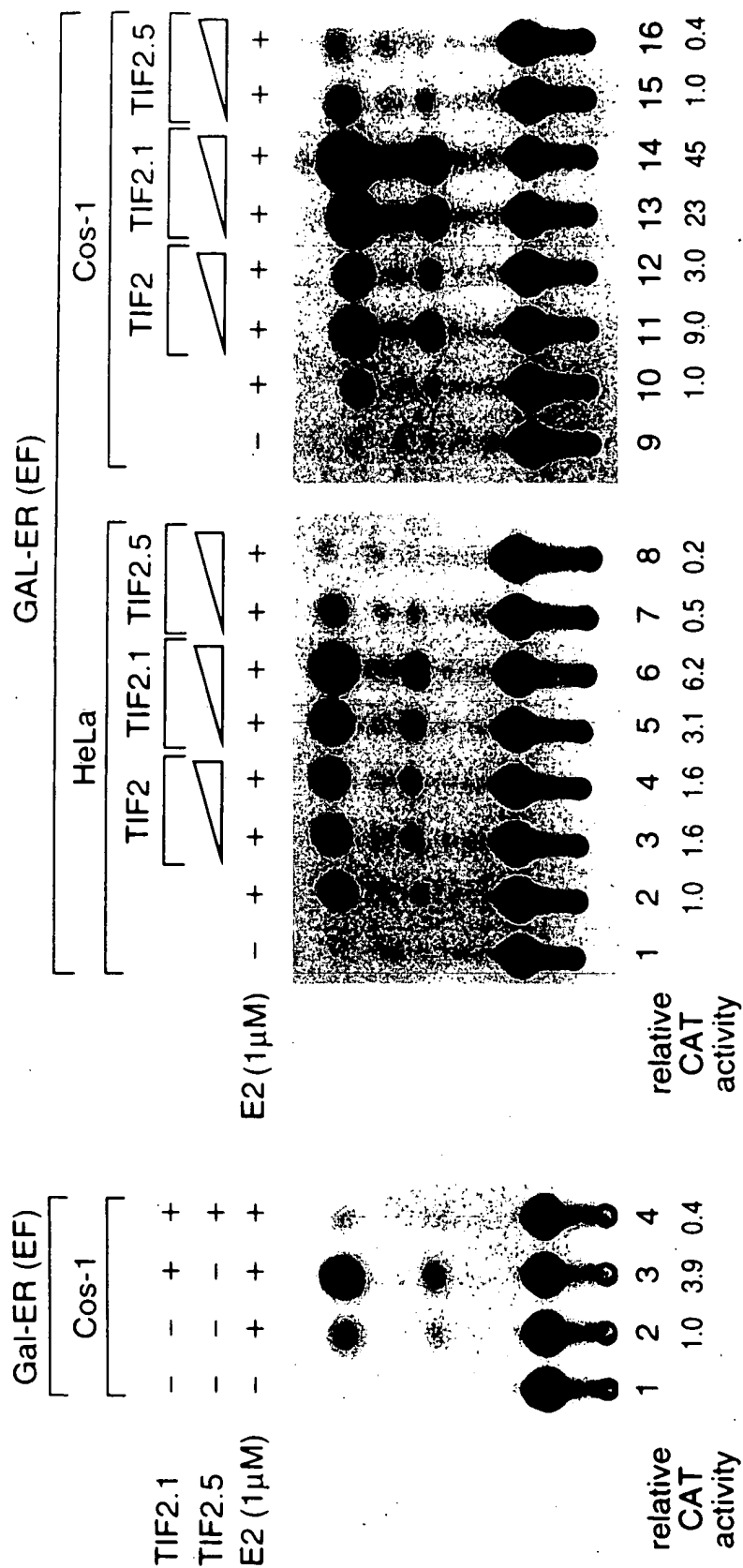


FIG. 12B

FIG. 12A

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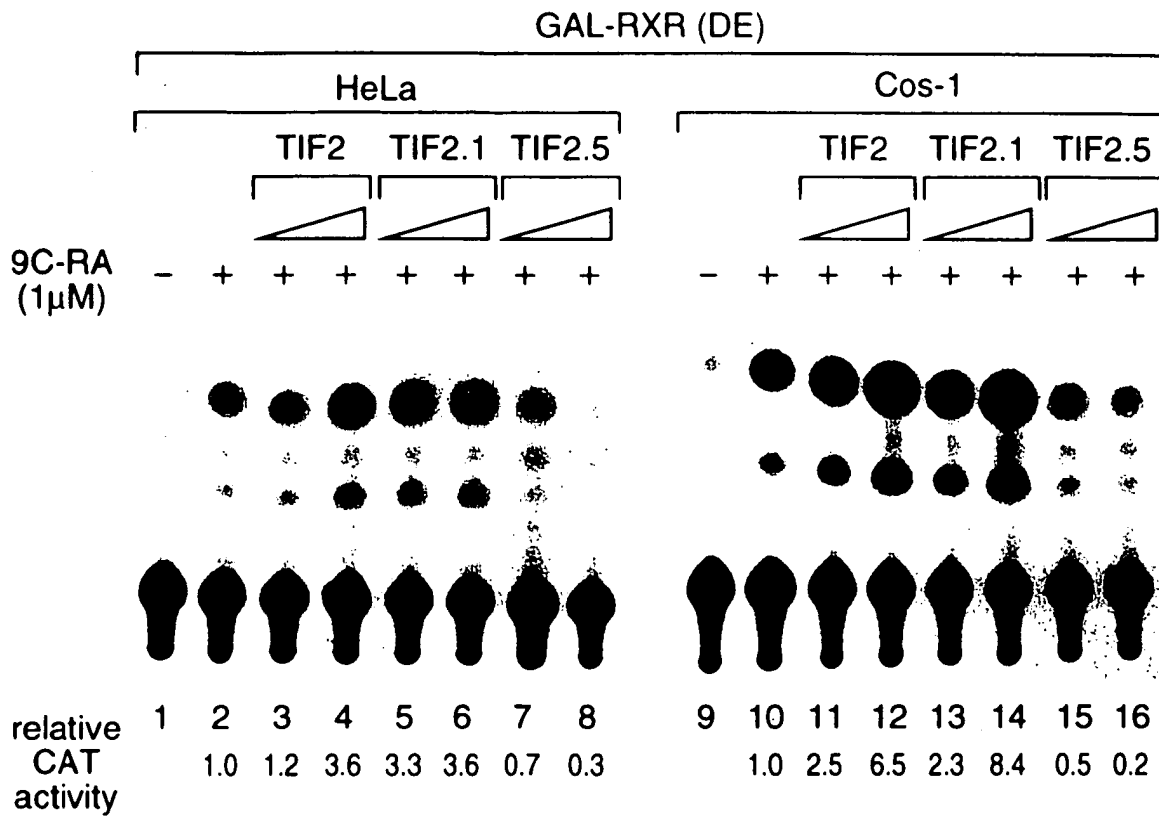


FIG.12C

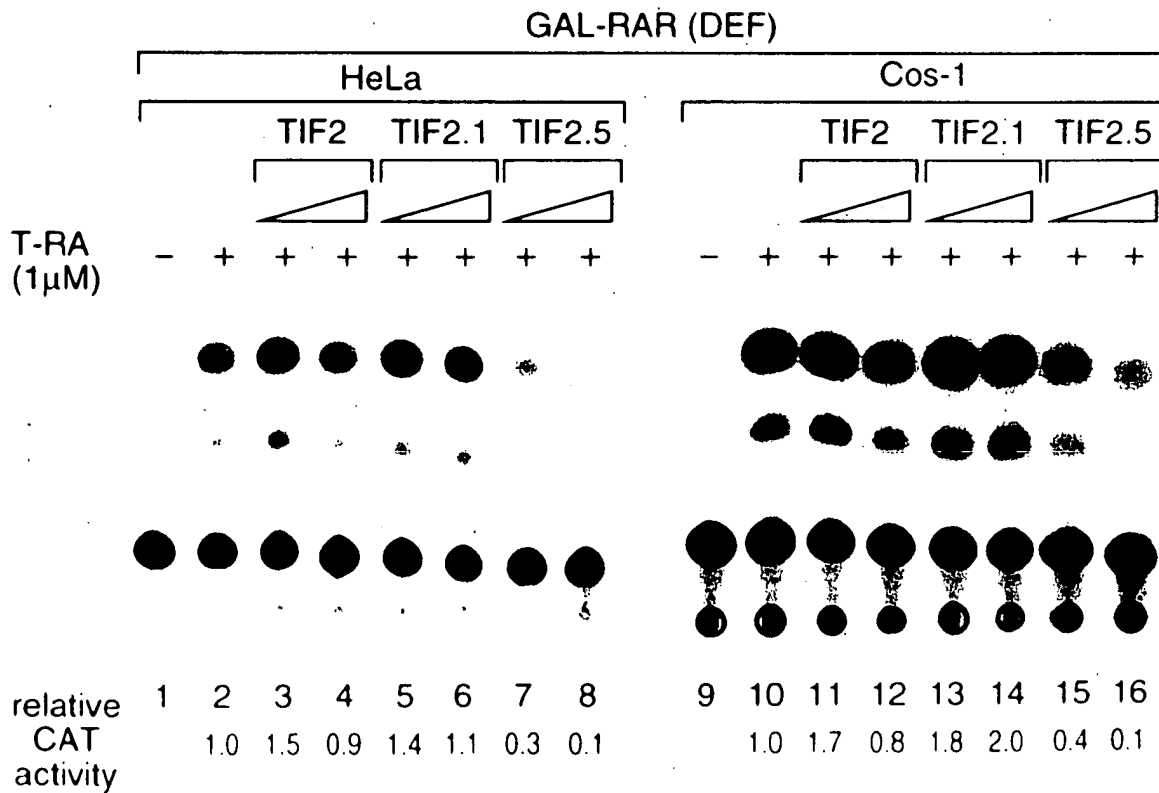


FIG.12D